

APR 23 2001
 PATENT & TRADEMARK OFFICE

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| FORM PTO-1449 (Modified) U.S. DEPT. OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| | Applicant: Pirrung et al. | |
| | Filing Date: September 1, 2000 | Group: 1643 1627 |

| Reference Designation | | | U.S. PATENT DOCUMENTS | | | | Page 1 |
|-----------------------|--------------|-----------|-----------------------|-------------------|-----------|---------------------------------|----------|
| Examiner Initial | Document No. | Date | Name | Class | Sub-class | Filing Date (If Appropriate) | |
| PP | AA | 3,730,844 | 5/1/73 | Gilham et al. | 195 | 103.5 R | 8/27/71 |
| | AB | 3,849,137 | 11/19/74 | Barzynski et al. | 96 | 97 | 10/5/72 |
| | AC | 3,862,056 | 1/21/75 | Hartman | 252 | 511 | 12/20/72 |
| | AD | 3,939,350 | 2/17/78 | Kronick et al. | 250 | 365 | 4/29/74 |
| | AE | 4,072,576 | 2/7/78 | Arwin et al. | 195 | 103.5 R | 9/20/76 |
| | AF | 4,121,222 | 10/17/78 | Diebold et al. | 347 | 7 | 7/6/77 |
| | AG | 4,180,739 | 12/25/79 | Abu-Shumays | 250 | 461 R | 12/23/77 |
| | AH | 4,216,245 | 8/5/80 | Johnson | 427 | 2.13 | 7/25/78 |
| | AI | 4,238,757 | 12/9/80 | Schenck | 357 | 25 | 3/19/76 |
| | AJ | 4,269,933 | 5/26/81 | Pazos | 430 | 291 | 9/28/79 |
| | AK | 4,314,821 | 2/9/82 | Rice | 23 | 230 B | 7/28/80 |
| | AL | 4,327,073 | 4/27/82 | Huang | 424 | 1 | 4/7/80 |
| | AM | 4,339,528 | 7/13/82 | Goldman | 430 | 323 | 5/19/81 |
| | AN | 4,342,905 | 8/3/82 | Fujii et al. | 250 | 201 | 8/21/80 |
| | AO | 4,373,071 | 2/8/83 | Itakura | 525 | 375 | 4/30/81 |
| | AP | 4,395,486 | 7/26/83 | Wilson et al. | 435 | 6 | 8/19/81 |
| | AQ | 4,405,771 | 9/20/83 | Jagur | 528 | 266 | 10/16/81 |
| | AR | 4,444,878 | 4/24/84 | Paulus | 435 | 7 | 12/21/81 |
| | AS | 4,444,892 | 4/24/84 | Malmros | 436 | 528 | 5/17/82 |
| | AT | 4,448,534 | 5/15/84 | Wertz et al. | 356 | 435 | 10/5/79 |
| | AU | 4,458,066 | 7/3/84 | Caruthers et al. | 536 | 27 | 3/24/81 |
| | AV | 4,483,920 | 11/20/84 | Gillespie et al. | 435 | 6 | 5/17/82 |
| | AW | 4,500,707 | 2/19/85 | Caruthers et al. | 536 | 27 | 3/16/82 |
| | AX | 4,500,919 | 2/19/85 | Schreiber | 358 | 78 | 5/4/82 |
| | AY | 4,516,833 | 5/14/85 | Fusek | 350 | 162.12 | 12/27/82 |
| | AZ | 4,517,338 | 5/14/85 | Urdea et al. | 525 | 54.11 | 7/13/84 |
| | BA | 4,533,682 | 8/6/85 | Tortorello et al. | 523 | 414 | 4/29/83 |
| | BB | 4,537,861 | 8/27/85 | Elings et al. | 436 | 518 | 2/3/83 |
| | BC | 4,542,102 | 9/17/85 | Dattagupta et al. | 435 | 6 | 7/5/83 |
| | BD | 4,555,490 | 11/26/85 | Merril | 436 | 86 | 6/8/84 |
| | BE | 4,556,643 | 12/3/85 | Paau et al. | 435 | 5 | 2/1/83 |
| | BF | 4,562,157 | 12/31/85 | Lowe et al. | 435 | 291 | 5/25/84 |
| | BG | 4,563,419 | 1/7/86 | Ranki et al. | 435 | 6 | 12/29/83 |
| | BH | 4,569,967 | 2/11/86 | Kornreich et al. | 525 | 54.11 | 10/24/83 |
| | BI | 4,580,895 | 4/8/86 | Patel | 356 | 39 | 10/28/83 |
| | BJ | 4,584,277 | 4/22/86 | Ullman | 436 | 501 | 4/5/83 |

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APR 25 2001

APR 23, 2001

FORM PTO-1449 (Modified)

Attorney Docket No.: 18547-043210US

Application No.: 09/654,948

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT (Use several sheets if necessary)

Applicant: Pirrung et al.

Filing Date: September 1, 2000

Group: 1643

| | | | | | | |
|--------------|-----------|----------|-------------------|-----|-------|----------|
| <u>PP</u> BK | 4,588,682 | 5/13/86 | Groet et al. | 435 | 6 | 12/13/82 |
| <u>BL</u> | 4,591,570 | 5/27/86 | Chang | 435 | 7.24 | 2/2/83 |
| <u>BM</u> | 4,598,049 | 7/1/86 | Zelinka et al. | 422 | 116 | 8/31/83 |
| <u>BN</u> | 4,613,566 | 9/23/86 | Potter | 435 | 6 | 1/23/84 |
| <u>BO</u> | 4,624,915 | 11/25/86 | Schindler et al. | 435 | 4 | 7/14/83 |
| <u>BP</u> | 4,626,684 | 12/2/86 | Landa | 250 | 328 | 7/13/83 |
| <u>BQ</u> | 4,631,211 | 12/23/86 | Houghten | 428 | 35 | 3/25/85 |
| <u>BR</u> | 4,637,861 | 1/20/87 | Krull et al. | 204 | 1 T | 12/16/85 |
| <u>BS</u> | 4,656,127 | 4/7/87 | Mundy | 435 | 6 | 4/23/84 |
| <u>BT</u> | 4,670,380 | 6/2/87 | Dattagupta | 435 | 6 | 5/23/84 |
| <u>BU</u> | 4,677,054 | 6/30/87 | White et al. | 435 | 6 | 8/8/83 |
| <u>BV</u> | 4,681,859 | 7/21/87 | Kramer | 436 | 501 | 9/21/84 |
| <u>BW</u> | 4,683,195 | 7/28/87 | Mullis et al. | 435 | 6 | 2/7/86 |
| <u>BX</u> | 4,683,202 | 7/28/87 | Mullis | 435 | 91 | 10/25/85 |
| <u>BY</u> | 4,689,405 | 8/25/87 | Frank et al. | 536 | 27 | 1/4/84 |
| <u>BZ</u> | 4,704,353 | 11/3/87 | Humphries et al. | 435 | 4 | 4/27/84 |
| <u>CA</u> | 4,711,955 | 12/8/87 | Ward et al. | 536 | 29 | 5/23/83 |
| <u>CB</u> | 4,713,326 | 12/15/87 | Dattagupta et al. | 435 | 6 | 5/18/84 |
| <u>CC</u> | 4,713,347 | 12/15/87 | Mitchell et al. | 436 | 501 | 1/14/85 |
| <u>CD</u> | 4,715,413 | 12/29/87 | Backlund et al. | 141 | 94 | 10/8/86 |
| <u>CE</u> | 4,716,106 | 12/29/87 | Chiswell | 435 | 6 | 2/28/85 |
| <u>CF</u> | 4,719,179 | 1/12/88 | Barany | 435 | 172.1 | 11/30/84 |
| <u>CG</u> | 4,719,615 | 1/12/88 | Feyrer et al. | 369 | 284 | 3/4/86 |
| <u>CH</u> | 4,722,906 | 2/2/88 | Guire | 436 | 501 | 9/29/82 |
| <u>CI</u> | 4,728,502 | 3/1/88 | Hamill | 422 | 116 | 4/26/85 |
| <u>CJ</u> | 4,728,591 | 3/1/88 | Clark et al. | 430 | 5 | 3/7/86 |
| <u>CK</u> | 4,731,325 | 3/15/88 | Palva et al. | 435 | 6 | 1/24/85 |
| <u>CL</u> | 4,737,344 | 4/12/88 | Koizumi et al. | 422 | 100 | 4/22/87 |
| <u>CM</u> | 4,755,458 | 7/5/88 | Rabbani et al. | 435 | 5 | 8/30/84 |
| <u>CN</u> | 4,762,881 | 8/9/88 | Kauer | 525 | 54.11 | 1/9/87 |
| <u>CO</u> | 4,766,062 | 8/23/88 | Diamond et al. | 435 | 6 | 5/7/84 |
| <u>CP</u> | 4,767,700 | 8/30/88 | Wallace | 435 | 6 | 2/15/85 |
| <u>CQ</u> | 4,777,019 | 10/11/88 | Dandekar | 422 | 68 | 4/11/86 |
| <u>CR</u> | 4,780,504 | 10/25/88 | Buendia et al. | 525 | 54.11 | 6/5/86 |
| <u>CS</u> | 4,786,170 | 11/22/88 | Groeblor | 356 | 318 | 5/13/86 |
| <u>CT</u> | 4,786,684 | 11/22/88 | Glass | 525 | 54.1 | 8/21/86 |
| <u>CU</u> | 4,794,150 | 12/27/88 | Steel | 525 | 54.11 | 3/11/87 |
| <u>CV</u> | 4,808,508 | 2/28/89 | Platzer | 430 | 143 | 7/1/86 |

APR 23 2001

FORM PTO-1449 (Modified)
 TRADE PATENTS AND PUBLICATIONS FOR
 APPLICANT'S INFORMATION DISCLOSURE
 STATEMENT (Use several sheets if necessary)

Attorney Docket No.: 18547-043210US

Application No.: 09/654,948

Applicant: Pirrung et al.

Filing Date: September 1, 2000

Group: 1643-1627

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|---------------|-----------|----------|------------------------|-----|-------|----------|
| <u>PP</u> CW | 4,810,869 | 3/7/89 | Yabe et al. | 250 | 201 | 12/23/87 |
| <u> </u> CX | 4,811,062 | 3/7/89 | Tabata et al. | 356 | 152 | 7/1/88 |
| <u> </u> CY | 4,811,218 | 3/7/89 | Hunkapiller et al. | 204 | 461 | 6/2/86 |
| <u> </u> CZ | 4,812,512 | 3/14/89 | Buendia et al. | 525 | 54.11 | 6/26/86 |
| <u> </u> DA | 4,820,630 | 4/11/89 | Taub | 435 | 5 | 11/23/84 |
| <u> </u> DB | 4,822,566 | 4/18/89 | Newman | 422 | 68 | 5/18/87 |
| <u> </u> DC | 4,833,092 | 5/23/89 | Geysen | 436 | 501 | 12/22/86 |
| <u> </u> DD | 4,844,617 | 7/4/89 | Kelderman et al. | 356 | 372 | 1/20/88 |
| <u> </u> DE | 4,846,552 | 7/11/89 | Veldkamp et al. | 350 | 162.2 | 2/9/88 |
| <u> </u> DF | 4,849,513 | 7/18/89 | Smith et al. | 536 | 27 | 6/24/86 |
| <u> </u> DG | 4,855,225 | 8/8/89 | Fung et al. | 435 | 6 | 2/7/86 |
| <u> </u> DH | 4,865,990 | 9/12/89 | Stead et al. | 435 | 803 | 7/9/87 |
| <u> </u> DI | 4,868,103 | 9/19/89 | Stavrianopoulos et al. | 435 | 5 | 2/19/86 |
| <u> </u> DJ | 4,874,500 | 10/17/89 | Madou et al. | 204 | 412 | 7/15/87 |
| <u> </u> DK | 4,877,745 | 10/31/89 | Hayes et al. | 436 | 166 | 3/14/89 |
| <u> </u> DL | 4,886,741 | 12/12/89 | Schwartz | 435 | 5 | 12/9/87 |
| <u> </u> DM | 4,888,278 | 12/19/89 | Singer et al. | 435 | 6 | 10/13/88 |
| <u> </u> DN | 4,921,805 | 5/1/90 | Gebeyehu et al. | 435 | 270 | 9/29/89 |
| <u> </u> DO | 4,923,901 | 5/8/90 | Koester et al. | 521 | 53 | 9/4/87 |
| <u> </u> DP | 4,925,785 | 5/15/90 | Wang et al. | 435 | 6 | 3/7/86 |
| <u> </u> DQ | 4,931,384 | 6/5/90 | Layton et al. | 435 | 7.31 | 10/17/84 |
| <u> </u> DR | 4,946,942 | 8/7/90 | Fuller et al. | 530 | 335 | 3/11/88 |
| <u> </u> DS | 4,965,188 | 10/23/90 | Mullis et al. | 435 | 6 | 6/17/87 |
| <u> </u> DT | 4,973,493 | 11/27/90 | Guire | 427 | 2 | 10/15/87 |
| <u> </u> DU | 4,979,959 | 12/25/90 | Guire | 623 | 66 | 5/5/89 |
| <u> </u> DV | 4,981,783 | 1/1/91 | Augenlicht | 435 | 6 | 4/16/86 |
| <u> </u> DW | 4,981,985 | 1/1/91 | Kaplan et al. | 556 | 50 | 10/20/87 |
| <u> </u> DX | 4,984,100 | 1/8/91 | Takayama et al. | 360 | 49 | 7/14/89 |
| <u> </u> DY | 4,987,065 | 1/22/91 | Stavrianopoulos et al. | 435 | 5 | 12/2/85 |
| <u> </u> DZ | 4,988,617 | 1/29/91 | Landegren et al. | 435 | 6 | 3/25/88 |
| <u> </u> EA | 4,992,383 | 2/12/91 | Farnsworth | 436 | 89 | 8/5/88 |
| <u> </u> EB | 4,994,373 | 2/19/91 | Stavrianopoulos et al. | 435 | 6 | 7/20/89 |
| <u> </u> EC | 5,002,867 | 3/26/91 | Macevicz | 435 | 6 | 10/24/88 |
| <u> </u> ED | 5,006,464 | 4/9/91 | Chu et al. | 435 | 7.1 | 10/1/87 |
| <u> </u> EE | 5,011,770 | 4/30/91 | Kung et al. | 435 | 6 | 7/24/90 |
| <u> </u> EF | 5,013,669 | 5/7/91 | Peters, Jr. et al. | 436 | 518 | 6/1/88 |
| <u> </u> EG | 5,021,550 | 6/4/91 | Zeiger | 530 | 334 | 9/11/90 |
| <u>✓</u> EH | 5,026,773 | 6/25/91 | Steel | 525 | 54.11 | 12/5/88 |

OFFICE
 APR 23 2001
 PATENT & TRADEMARK

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|---|-----------|----------|-------------------------------------|-----|-----------------------------|----------|
| FORM PTO-449 (Modified) | | | Attorney Docket No.: 18547-043210US | | Application No.: 09/654,948 | |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | | Applicant: Pirrung et al. | | | |
| | | | Filing Date: September 1, 2000 | | Group: 1643 | |
| <input checked="" type="checkbox"/> EI | 5,026,840 | 6/25/91 | Dattagupta et al. | 536 | 27 | 2/6/90 |
| <input type="checkbox"/> EJ | 5,028,525 | 7/2/91 | Gray et al. | 435 | 6 | 6/26/90 |
| <input type="checkbox"/> EK | 5,028,545 | 7/2/91 | Soini | 436 | 501 | 6/9/88 |
| <input type="checkbox"/> EL | 5,037,882 | 8/6/91 | Steel | 525 | 54.11 | 12/23/88 |
| <input type="checkbox"/> EM | 5,043,265 | 8/27/91 | Tanke et al. | 435 | 6 | 3/26/87 |
| <input type="checkbox"/> EN | 5,047,524 | 9/10/91 | Andrus et al. | 536 | 27 | 12/21/88 |
| <input type="checkbox"/> EO | 5,064,754 | 11/12/91 | Mills | 435 | 6 | 11/13/87 |
| <input type="checkbox"/> EP | 5,077,085 | 12/31/91 | Schnur et al. | 427 | 98 | 3/6/87 |
| <input type="checkbox"/> EQ | 5,077,210 | 12/31/91 | Eigler et al. | 435 | 176 | 1/13/89 |
| <input type="checkbox"/> ER | 5,079,600 | 1/7/92 | Schnur et al. | 357 | 4 | 4/14/88 |
| <input type="checkbox"/> ES | 5,081,584 | 1/14/92 | Omichinski et al. | 364 | 497 | 3/13/89 |
| <input type="checkbox"/> ET | 5,082,830 | 1/21/92 | Brakel at al. | 514 | 44 | 2/26/88 |
| <input type="checkbox"/> EU | 5,091,652 | 2/25/92 | Mathies et al. | 250 | 458.1 | 6/1/90 |
| <input type="checkbox"/> EV | 5,096,807 | 3/17/92 | Leaback | 435 | 6 | 12/1/89 |
| <input type="checkbox"/> EW | 5,100,626 | 3/31/92 | Levin | 422 | 100 | 5/24/90 |
| <input type="checkbox"/> EX | 5,100,777 | 3/31/92 | Chang | 435 | 7.24 | 4/27/87 |
| <input type="checkbox"/> EY | 5,112,962 | 5/12/92 | Letsinger et al. | 536 | 27 | 11/9/90 |
| <input type="checkbox"/> EZ | 5,141,813 | 8/25/92 | Nelson | 428 | 402 | 8/28/89 |
| <input type="checkbox"/> FA | 5,143,854 | 9/1/92 | Pirrung et al. | 436 | 518 | 3/7/90 |
| <input type="checkbox"/> FB | 5,149,625 | 9/22/92 | Church et al. | 435 | 6 | 3/28/90 |
| <input type="checkbox"/> FC | 5,153,319 | 10/6/92 | Caruthers et al. | 536 | 27 | 3/31/86 |
| <input type="checkbox"/> FD | 5,164,319 | 11/17/92 | Hafeman et al. | 435 | 287.1 | 11/17/89 |
| <input type="checkbox"/> FE | 5,171,695 | 12/15/92 | Ekins | 436 | 501 | 2/3/89 |
| <input type="checkbox"/> FF | 5,188,963 | 2/23/93 | Stapleton | 435 | 288.3 | 11/17/89 |
| <input type="checkbox"/> FG | 5,192,980 | 3/9/93 | Dixon et al. | 356 | 326 | 6/26/91 |
| <input type="checkbox"/> FH | 5,200,051 | 4/6/93 | Cozzette et al. | 204 | 403 | 11/7/89 |
| <input type="checkbox"/> FI | 5,202,231 | 4/13/93 | Drmanac et al. | 435 | 6 | 6/18/91 |
| <input type="checkbox"/> FJ | 5,206,137 | 4/27/93 | Ip et al. | 435 | 6 | 11/21/91 |
| <input type="checkbox"/> FK | 5,215,882 | 6/1/93 | Bahl et al. | 435 | 6 | 11/30/89 |
| <input type="checkbox"/> FL | 5,215,889 | 6/1/93 | Schultz | 435 | 41 | 9/8/89 |
| <input type="checkbox"/> FM | 5,219,726 | 6/15/93 | Evans | 435 | 6 | 6/2/89 |
| <input type="checkbox"/> FN | 5,225,326 | 7/6/93 | Bresser et al. | 435 | 6 | 10/28/91 |
| <input type="checkbox"/> FO | 5,232,829 | 8/3/93 | Longiaru et al. | 435 | 6 | 9/29/89 |
| <input type="checkbox"/> FP | 5,235,028 | 8/10/93 | Barany et al. | 528 | 335 | 9/16/91 |
| <input type="checkbox"/> FQ | 5,242,974 | 9/7/93 | Holmes | 525 | 54.11 | 11/22/91 |
| <input type="checkbox"/> FR | 5,252,743 | 10/12/93 | Barrett et al. | 548 | 303.7 | 11/13/90 |
| <input type="checkbox"/> FS | 5,256,549 | 10/26/93 | Urdea et al. | 435 | 91 | 4/27/90 |
| <input checked="" type="checkbox"/> FT | 5,258,506 | 11/2/93 | Urdea et al. | 536 | 23.1 | 8/25/89 |

APR 2 '3 2001

FORM PTO-1549 (Modified)

Attorney Docket No.: 18547-043210US

Application No.: 09/654,948

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Applicant: Pirrung et al.

Filing Date: September 1, 2000

Group: ~~1643~~ 1627

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|--------------|-----------|----------|-------------------|-----|-------|----------|
| <u>PP</u> FU | 5,306,641 | 4/26/94 | Saccocio | 436 | 85 | 8/12/91 |
| <u> </u> FV | 5,310,893 | 5/10/94 | Erlich et al. | 536 | 24.31 | 5/4/89 |
| <u> </u> FW | 5,324,633 | 6/28/94 | Fodor et al. | 435 | 6 | 11/22/91 |
| <u> </u> FX | 5,328,824 | 7/12/94 | Ward et al. | 435 | 6 | 12/8/87 |
| <u> </u> FY | 5,348,855 | 9/20/94 | Dattagupta et al. | 435 | 6 | 10/4/91 |
| <u> </u> FZ | 5,384,261 | 1/24/95 | Winkler et al. | 436 | 518 | 11/22/91 |
| <u> </u> GA | 5,405,783 | 4/11/95 | Pirrung et al. | 436 | 518 | 3/12/92 |
| <u> </u> GB | 5,424,186 | 6/13/95 | Fodor et al. | 435 | 6 | 12/6/91 |
| <u> </u> GC | 5,424,188 | 6/13/95 | Schneider et al. | 435 | 6 | 10/20/92 |
| <u> </u> GD | 5,432,099 | 6/11/95 | Ekins | 436 | 518 | 12/1/92 |
| <u> </u> GE | 5,436,327 | 7/25/95 | Southern et al. | 536 | 25.34 | 3/20/91 |
| <u> </u> GF | 5,445,934 | 8/29/95 | Fodor et al. | 435 | 6 | 9/30/92 |
| <u> </u> GG | 5,447,841 | 9/5/95 | Gray et al. | 435 | 6 | 12/14/90 |
| <u> </u> GH | 5,474,796 | 12/12/95 | Brennan | 427 | 2.13 | 5/27/93 |
| <u> </u> GI | 5,486,452 | 1/23/96 | Gordon et al. | 435 | 5 | 4/10/87 |
| <u> </u> GJ | 5,489,507 | 2/6/96 | Chehab | 435 | 6 | 5/1/91 |
| <u> </u> GK | 5,489,678 | 2/6/96 | Fodor et al. | 536 | 22.1 | 2/16/95 |
| <u> </u> GL | 5,492,806 | 2/20/96 | Drmanac et al. | 435 | 5 | 4/12/93 |
| <u> </u> GM | 5,494,810 | 2/27/96 | Barany et al. | 435 | 91.52 | 11/22/94 |
| <u> </u> GN | 5,510,270 | 4/23/96 | Fodor et al. | 436 | 518 | 9/30/92 |
| <u> </u> GO | 5,525,464 | 6/11/96 | Drmanac et al. | 435 | 6 | 2/28/94 |
| <u> </u> GP | 5,527,681 | 6/18/96 | Holmes | 435 | 6 | 11/5/92 |
| <u> </u> GQ | 5,552,270 | 9/3/96 | Khrapko et al. | 435 | 6 | 11/9/92 |
| <u> </u> GR | 5,556,961 | 9/17/96 | Foote et al. | 536 | 27.1 | 10/24/94 |
| <u> </u> GS | 5,561,071 | 10/1/96 | Hollenberg et al. | 437 | 1 | 9/25/95 |
| <u> </u> GT | 5,569,584 | 10/29/96 | Augenlicht | 435 | 6 | 3/14/94 |
| <u> </u> GU | 5,571,639 | 11/5/96 | Hubbell et al. | 430 | 5 | 5/24/94 |
| <u> </u> GV | 5,593,839 | 1/14/97 | Hubbell et al. | 435 | 6 | 6/2/95 |
| <u> </u> GW | 5,599,720 | 2/4/97 | Ekins | 436 | 501 | 6/17/94 |
| <u> </u> GX | 5,604,099 | 2/18/97 | Erlich et al. | 435 | 6 | 6/1/95 |
| <u> </u> GY | 5,643,728 | 7/1/97 | Slater et al. | 435 | 6 | 2/27/95 |
| <u> </u> GZ | 5,653,939 | 8/5/97 | Hollis et al. | 422 | 50 | 8/7/95 |
| <u> </u> HA | 5,667,667 | 9/16/97 | Southern | 205 | 687 | 7/18/96 |
| <u> </u> HB | 5,667,972 | 9/16/97 | Drmanac et al. | 435 | 6 | 6/5/95 |
| <u> </u> HC | 5,695,940 | 12/9/97 | Drmanac et al. | 435 | 6 | 6/5/95 |
| <u> </u> HD | 5,698,393 | 12/16/97 | Macioszek et al. | 435 | 5 | 8/18/95 |
| <u> </u> HE | 5,700,637 | 12/23/97 | Southern | 435 | 6 | 4/19/94 |
| <u> </u> HF | 5,707,806 | 1/13/98 | Shuber | 435 | 6 | 6/7/95 |

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|-------|-----------|----------|-----------------|-----|-------|----------|
| PP HG | 5,744,305 | 4/28/98 | Fodor et al. | 435 | 6 | 6/6/95 |
| HH | 5,776,737 | 7/7/98 | Dunn | 435 | 91.1 | 12/22/94 |
| HI | 5,777,888 | 7/7/98 | Rine et al. | 364 | 496 | 8/9/95 |
| HJ | 5,800,992 | 9/1/98 | Fodor et al. | 435 | 6 | 6/25/96 |
| HK | 5,807,522 | 9/15/98 | Brown et al. | 422 | 50 | 6/7/95 |
| HL | 5,830,645 | 11/3/98 | Pinkel et al. | 435 | 6 | 12/9/94 |
| HM | 5,843,767 | 12/1/98 | Beattie | 435 | 287.1 | 4/10/96 |
| HN | 5,846,708 | 12/8/98 | Hollis et al. | 435 | 6 | 4/23/92 |
| HO | 5,869,237 | 2/9/99 | Ward et al. | 435 | 6 | 11/22/94 |
| HP | 5,871,697 | 2/16/99 | Rothberg et al. | 422 | 68.1 | 10/24/95 |
| HQ | 5,972,619 | 10/26/99 | Drmanac et al. | 435 | 6 | 10/22/98 |
| HR | 6,018,041 | 1/25/00 | Drmanac et al. | 536 | 24.3 | 7/29/97 |
| HS | 6,025,136 | 2/15/00 | Drmanac et al. | 435 | 6 | 8/28/97 |
| HT | 6,040,166 | 3/21/00 | Erlich et al. | 435 | 194 | 9/27/94 |
| HU | 6,054,270 | 4/25/00 | Southern | 435 | 6 | 9/9/97 |

FOREIGN PATENT DOCUMENTS

| | Document No. | Date | Country | Class | Sub-class | Translation (Yes/No) |
|-------|--------------|----------|------------|-------|-----------|-------------------------|
| PP HV | EP 046 083 | 2/17/82 | Europe EPO | | | |
| HW | EP 063 810 | 3/5/86 | Europe | | | |
| HX | EP 088 636 | 9/14/83 | Europe | | | |
| HY | EP 103 197 | 3/21/84 | Europe | | | |
| HZ | EP 127 438 | 12/5/84 | Europe | | | |
| IA | EP 130 523 | 6/1/88 | Europe | | | |
| IB | EP 142 299 | 12/19/90 | Europe | | | |
| IC | EP 171 150 | 3/25/92 | Europe | | | |
| ID | EP 173 339 | 1/22/92 | Europe | | | |
| IE | EP 174 879 | 3/19/86 | Europe | | | Yes |
| IF | EP 185 547 | 6/3/92 | Europe | | | |
| IG | EP 194 132 | 9/10/86 | Europe | | | |
| IH | EP 225 807 | 10/19/94 | Europe | | | |
| II | EP 228 075 | 7/8/87 | Europe | | | |
| IJ | EP 228 310 | 10/26/88 | Europe | | | |
| IK | EP 232 967 | 4/28/93 | Europe | | | |
| IL | EP 235 726 | 5/19/93 | Europe | | | |
| IM | EP 237 362 | 3/11/92 | Europe | | | |
| IN | EP 245 662 | 11/19/87 | Europe | | | |
| IO | EP 260 634 | 6/10/92 | Europe | | | |

APR 23 2001
 PATENT & TRADEMARK OFFICE

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|---|----|-------------|-------------------------------------|--------|-----------------------------|--|
| FORM PTO-449 (Modified) | | | Attorney Docket No.: 18547-043210US | | Application No.: 09/654,948 | |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | | Applicant: Pirrung et al. | | | |
| | | | Filing Date: September 1, 2000 | | Group: 1643 1627 | |
| <u>PP</u> | IP | EP 268 237 | 5/28/88 | Europe | EPO | |
| <u> </u> | IQ | EP 281 927 | 9/14/88 | Europe | | |
| <u> </u> | IR | EP 288 310 | 10/26/88 | Europe | | |
| <u> </u> | IS | EP 304 202 | 2/22/89 | Europe | | |
| <u> </u> | IT | EP 307 476 | 3/22/89 | Europe | | |
| <u> </u> | IU | EP 319 012 | 6/7/89 | Europe | | |
| <u> </u> | IV | EP 328 256 | 8/16/89 | Europe | | |
| <u> </u> | IW | EP 333 561 | 9/20/89 | Europe | | |
| <u> </u> | IX | EP 337 498 | 10/18/89 | Europe | | |
| <u> </u> | IY | EP 373 203 | 6/20/90 | Europe | | |
| <u> </u> | IZ | EP 386 229 | 4/5/90 | Europe | | |
| <u> </u> | JA | EP 392 546 | 10/17/90 | Europe | | |
| <u> </u> | JB | EP 476 014 | 8/31/94 | Europe | | |
| <u> </u> | JC | EP 535 242 | 9/3/97 | Europe | | |
| <u> </u> | JD | EP 619 321 | 1/7/99 | Europe | | |
| <u> </u> | JE | EP 717 113 | 6/19/96 | Europe | | |
| <u> </u> | JF | EP 721 016 | 7/10/96 | Europe | | |
| <u> </u> | JG | EP 848 067 | 6/17/98 | Europe | | |
| <u> </u> | JH | WO 84/03151 | 8/16/84 | WIPO | | |
| <u> </u> | JI | WO 84/03564 | 9/13/84 | WIPO | | |
| <u> </u> | JJ | WO 85/01051 | 3/14/85 | WIPO | | |
| <u> </u> | JK | WO 86/00991 | 2/13/86 | WIPO | | |
| <u> </u> | JL | WO 86/06487 | 11/6/86 | WIPO | | |
| <u> </u> | JM | WO 88/04777 | 6/30/88 | WIPO | | |
| <u> </u> | JN | WO 88/01302 | 6/3/93 | WIPO | | |
| <u> </u> | JO | WO 88/01058 | 2/11/88 | WIPO | | |
| <u> </u> | JP | WO 89/05616 | 6/29/89 | WIPO | | |
| <u> </u> | JQ | WO 89/08834 | 9/21/89 | WIPO | | |
| <u> </u> | JR | WO 89/10977 | 11/16/89 | WIPO | | |
| <u> </u> | JS | WO 89/11548 | 11/30/89 | WIPO | | |
| <u> </u> | JT | WO 89/12819 | 12/28/89 | WIPO | | |
| <u> </u> | JU | WO 90/00626 | 1/25/90 | WIPO | | |
| <u> </u> | JV | WO 90/00887 | 2/8/90 | WIPO | | |
| <u> </u> | JW | WO 90/03382 | 4/5/90 | WIPO | | |
| <u> </u> | JX | WO 90/04652 | 5/3/90 | WIPO | | |
| <u> </u> | JY | WO 90/05789 | 5/31/90 | WIPO | | |
| <u> </u> | JZ | WO 90/07582 | 7/12/90 | WIPO | | |
| <u> </u> | KA | WO 90/15070 | 2/13/90 | WIPO | | |

APR 23 2001

FORM PTO 1449 (Modified)

Attorney Docket No.: 18547-043210US

Application No.: 09/654,948

4. LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT (Use several sheets if necessary)

Applicant: Pirrung et al.

Filing Date: September 1, 2000

Group: 1643

| | | | | | |
|----|---|----------|---------------|--|---------------|
| KB | WO 91/00868 | 1/24/91 | WIPO | | |
| KC | WO 91/04266 | 4/4/91 | WIPO | | |
| KD | WO 91/07087 | 5/30/91 | WIPO | | |
| KE | WO 92/10588 | 6/25/92 | WIPO | | |
| KF | WO 92/10092 | 6/25/92 | WIPO | | |
| KG | WO 92/16655 | 1/10/92 | WIPO | | |
| KH | WO 93/02992 | 2/3/93 | WIPO | | |
| KI | WO 93/09668 | 5/27/93 | WIPO | | |
| KJ | WO 93/11262 | 6/30/93 | WIPO | | |
| KK | WO 93/17126 | 9/2/93 | WIPO | | |
| KL | WO 93/22456 | 11/11/93 | WIPO | | |
| KM | WO 93/22480 | 11/11/93 | WIPO | | |
| KN | WO 95/00530 | 1/5/95 | WIPO | | |
| KO | WO 95/11995 | 5/4/95 | WIPO | | |
| KP | WO 95/33846 | 12/14/95 | WIPO | | |
| KQ | WO 96/23078 | 8/1/96 | WIPO | | |
| KR | WO 97/10365 | 3/20/97 | WIPO | | |
| KS | WO 97/17317 | 5/15/97 | WIPO | | |
| KT | WO 97/19410 | 5/29/97 | WIPO | | |
| KU | WO 97/27317 | 7/13/97 | WIPO | | |
| KV | WO 97/29212 | 8/14/97 | WIPO | | |
| KW | WO 97/31256 | 8/28/97 | WIPO | | |
| KX | WO 97/45559 | 12/4/97 | WIPO | | |
| KY | WO 98/03673 | 1/29/98 | WIPO | | |
| KZ | WO 98/31836 | 7/23/98 | WIPO | | |
| LA | CA 1284931 | 6/18/91 | Canada | | |
| LB | GB 8810400.5 (priority for WO 89/10977) | 5/3/88 | Great Britian | | |
| LC | GB 2156074 | 3/15/88 | Great Britian | | |
| LD | GB 2196476 | 4/27/88 | Great Britian | | |
| LE | GB 2233654 | 1/16/91 | Great Britian | | |
| LF | GB 2248840 | 9/1/92 | Great Britian | | |
| LG | DE 3505287 | 3/15/88 | Germany | | Abstract Only |
| LH | DE 2242394 | 3/14/74 | Germany | | Abstract Only |
| LI | DE 3440141 | 5/7/86 | Germany | | Abstract Only |
| LJ | FR 2559783 | 3/15/88 | France | | Abstract Only |
| LK | P 913186 | 8/15/91 | Norway | | Abstract Only |
| LL | JP 49-110601 | 10/22/74 | Japan | | Abstract Only |

APR 23 2001

FORM PTO-449 (Modified)

Attorney Docket No.: 18547-043210US

Application No.: 09/654,948

ESTOPED PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT (Use several sheets if necessary)

Applicant: Pirrung et al.

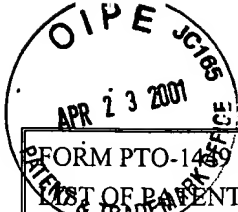
Filing Date: September 1, 2000

Group: ~~1643~~ 1627

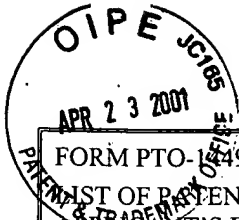
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| <input checked="" type="checkbox"/> LN | JP 63-084499 | 4/15/88 | Japan | | Abstract Only |
| <input checked="" type="checkbox"/> LO | JP 63-223557 | 9/19/88 | Japan | | Abstract Only |
| <input checked="" type="checkbox"/> LP | JP 1-233447 | 9/19/89 | Japan | | Abstract Only |
| <input checked="" type="checkbox"/> LQ | YU 18617/87 | 9/18/87 | Yugoslavia | | Yes |
| <input checked="" type="checkbox"/> LR | YU P-570/87 | 4/1/87 | Yugoslavia | | Yes |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | | | |
|--|--|--|--|--|--|
| <input checked="" type="checkbox"/> LS | Sequencing by Hybridization Workshop, listing of participants and workshop presentation summaries, from workshop held 11/19-20/91. | | | | |
| <input checked="" type="checkbox"/> LT | "A Sequencing Reality Check," <u>Science</u> , 242:1245 (1988) | | | | |
| <input checked="" type="checkbox"/> LU | "Affymax raises \$25 million to develop high-speed drug discovery system," <u>Biotechnology News</u> , 10(3):7-8 (1990) | | | | |
| <input checked="" type="checkbox"/> LV | "Preparation of fluorescent-labeled DNA and its use as a probe in molecular hybridization," <u>Bioorg Khim</u> , 12(11):1508-1513 (1986) | | | | |
| <input checked="" type="checkbox"/> LW | Abbott et al., "Manipulation of the Wettability of Surfaces on the 0.1 – to 1 –Micrometer Scale Through Micromachining and Molecular Self-Assembly," <u>Science</u> , 257:1380-1382 (1992) | | | | |
| <input checked="" type="checkbox"/> LX | Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <u>Science</u> , 252(5013):1651-1656 (1991) | | | | |
| <input checked="" type="checkbox"/> LY | Adams et al., "Photolabile Chelators That "Cage" Calcium with Improved Speed of Release and Pre-Photolysis Affinity," <u>J. Gen. Physiol.</u> , pg. 9a (12/86) | | | | |
| <input checked="" type="checkbox"/> LZ | Adams et al., "Biologically Useful Chelators That Take Up Ca ²⁺ upon Illumination," <u>J. Am. Chem. Soc.</u> , 111:7957-7968 (1989) | | | | |
| <input checked="" type="checkbox"/> MA | Ajayaghosh et al., "Solid-Phase Synthesis of <i>N</i> -Methyl- and <i>N</i> -Ethylamides of Peptides Using Photolytically Detachable ((3-Nitro-4((alkylamino)methyl)benzamido)methyl)polystyrene Resin," <u>J. Org. Chem.</u> , 55(9):2826-2829 (1990) | | | | |
| <input checked="" type="checkbox"/> MB | Ajayaghosh et al., "Solid-phase synthesis of C-terminal peptide amides using a photoremovable α -methylphenacylamido anchoring linkage," <u>Proc. Ind. Natl. Sci. (Chem.Sci.)</u> , 100(5):389-396 (1988) | | | | |
| <input checked="" type="checkbox"/> MC | Ajayaghosh et al., "Polymer-supported Solid-phase Synthesis of C-Terminal Peptide <i>N</i> -Methylamides Using a Modified Photoremovable 3-Nitro-4- <i>N</i> -methylaminomethylpolystyrene Support," <u>Ind. J. Chem.</u> , 27B:1004-1008 (1988) | | | | |
| <input checked="" type="checkbox"/> MD | Ajayaghosh et al., "Polymer-Supported Synthesis of Protected Peptide Segments on a Photosensitive <i>o</i> -Nitro(α -Methyl)Bromobenzyl Resin," <u>Tetrahedron</u> , 44(21):6661-6666 (1988) | | | | |
| <input checked="" type="checkbox"/> ME | Amit et al., "Photosensitive Protecting Groups of Amino Sugars and Their Use in Glycoside Synthesis. 2-Nitrobenzyloxycarbonylamino and 6-Nitroveratryloxycarbonylamino Derivatives," <u>J. Org. Chem.</u> , 39(2):192-196 (1974) | | | | |
| <input checked="" type="checkbox"/> MF | Amit et al., "Photosensitive Protecting Groups – A Review," <u>Israel J. Chem.</u> , 12(1-2):103-113 (1974) | | | | |
| <input checked="" type="checkbox"/> MG | Anand et al., "A 3.5 genome equivalent multi access YAC library: construction, characterisation, screening and storage," <u>Nuc. Acids Res.</u> , 18(8):1951-1956 (1990). | | | | |
| <input checked="" type="checkbox"/> MH | Anderson et al., "Quantitative Filter Hybridisation," chapter 3 from <i>Nucleic Acid Hybridization a practical approach</i> , pgs. 73-111, Hames et al., eds., IRL Press (1985). | | | | |
| <input checked="" type="checkbox"/> MI | Applied Biosystems, Model 431A Peptide Synthesizer User's manual, Sections 2 and 6, (8/15/89) | | | | |
| <input checked="" type="checkbox"/> MJ | Arnold et al., "A Novel Universal Support for DNA & RNA Synthesis," abstract from <u>Federation Proceedings</u> , 43(7): abstract no. 3669 (1984) | | | | |
| <input checked="" type="checkbox"/> MK | Atherton et al., <i>Solid Phase Peptide Synthesis: A Practical Approach</i> , IRL Press, (1989), tbl. of cont., pp. vii-ix | | | | |

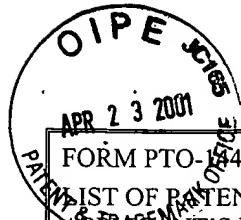


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|---|--|-------------------------------------|-----------------------------|
| FORM PTO-1489 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <input checked="" type="checkbox"/> ML | Augenlicht et al., "Cloning and Screening of Sequences Expressed in a Mouse Colon Tumor," <u>Cancer Research</u> , 42:1088-1093 (1982) | | |
| <input type="checkbox"/> MM | Augenlicht et al., "Expression of Cloned Sequences in Biopsies of Human Colonic Tissue and in Colonic Carcinoma Cells Induced to Differentiate <i>in Vitro</i> ," <u>Cancer Res.</u> , 47:6017-6021 (1987) | | |
| <input type="checkbox"/> MN | Bains, W., "Hybridization Methods for DNA Sequencing," <u>Genomics</u> , 11(2):294-301 (1991) | | |
| <input type="checkbox"/> MO | Bains et al., "A Novel Method for Nucleic Acid Sequence Determination," <u>J.Theor.Biol.</u> , 135:303-307 (1988) | | |
| <input type="checkbox"/> MP | Bains, W., "Alternative Routes Through the Genome," <u>Biotechnology</u> , 8:1251-1256 (1988) | | |
| <input type="checkbox"/> MQ | Balachander et al., "Functionalized Siloxy-Anchored Monolayers with Exposed Amino, Azido, Bromo, or Cyano Groups," <u>Tetrahed. Ltrs.</u> , 29(44):5593-5594 (1988) | | |
| <input type="checkbox"/> MR | Baldwin et al., "New Photolabile Phosphate Protecting Groups," <u>Tetrahed.</u> , 46(19):6879-6884 (1990) | | |
| <input type="checkbox"/> MS | Bannwarth et al., "Laboratory Methods, A System for the Simultaneous Chemical synthesis of Different DNA Fragments on Solid Support," <u>DNA</u> , 5(5):413-419 (1986). | | |
| <input type="checkbox"/> MT | Bannwarth, W., "Gene Technology: a Challenge for a Chemist," <u>CHIMIA</u> , 41(9):302-317 (1987). | | |
| <input type="checkbox"/> MU | Barany, F., "Genetic disease detection and DNA amplification using cloned thermostable ligase," <u>PNAS</u> , 88:189-193 (1991). | | |
| <input type="checkbox"/> MV | Barltrop et al., "Photosensitive Protective Groups," <u>Chemical Communications</u> , pgs. 822-823 (1966) | | |
| <input type="checkbox"/> MW | Barinaga, M., "Will 'DNA Chip' Speed Genome Initiative," <u>Science</u> , 253:1489 (1985) | | |
| <input type="checkbox"/> MX | Bart et al., "Microfabricated Electrohydrodynamic Pumps," <u>Sensors and Actuators</u> , A21-A23:193-197 (1990) | | |
| <input type="checkbox"/> MY | Bartsh et al., "Cloning of mRNA sequences from the human colon: Preliminary characterisation of defined mRNAs in normal and neoplastic tissues," <u>Br.J.Can.</u> , 54:791-798 (1986) | | |
| <input type="checkbox"/> MZ | Baum, R., "Fledgling firm targets drug discovery process," <u>Chem. Eng. News</u> , p. 10-11 (1990) | | |
| <input type="checkbox"/> NA | Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," <u>Methods in Enzymology</u> , 100:266-285 (1983) | | |
| <input type="checkbox"/> NB | Benschop, Chem. Abstracts 114(26):256643 (1991) | | |
| <input type="checkbox"/> NC | Bhatia et al., "New Approach To Producing Patterned Biomolecular Assemblies," <u>J. American Chemical Society</u> , 114:4432-4433 (1992) | | |
| <input type="checkbox"/> ND | Biorad Chromatography Electrophoresis Immunochemistry Molecular Biology HPLC catalog M 1987 pp. 182 | | |
| <input type="checkbox"/> NE | Blawas et al., "Step-and-Repeat Photopatterning of Protein Features Using Caged-Biotin-BSA: Characterization and Resolution," <u>Langmuir</u> , 14(15):4243-4250 (1998) | | |
| <input type="checkbox"/> NF | Blawas, A.S., "Photopatterning of Protein Features using Caged-biotin-Bovine Serum Albumin," dissertation for Ph.D at Duke University in 1998 | | |
| <input type="checkbox"/> NG | Bos et al., "Amino-acid substitutions at codon 13 of the N-ras oncogene in human acute myeloid leukaemia," <u>Nature</u> , 315:726-730 (1985) | | |
| <input type="checkbox"/> NH | Boyle et al., "Differential distribution of long and short interspersed element sequences in the mouse genome: Chromosome karyotyping by fluorescence <i>in situ</i> hybridization," <u>PNAS</u> , 87:7757-7761 (1990) | | |
| <input type="checkbox"/> NI | Brock et al., "Rapid fluorescence detection of <i>in situ</i> hybridization with biotinylated bovine herpesvirus-1 DNA probes," <u>J.Veterinary Diagnostic Invest.</u> , 1:34-38 (1989) | | |
| <input type="checkbox"/> NJ | Burgi et al., "Optimization in Sample Stacking for High-Performance Capillary Electrophoresis," <u>Anal. Chem.</u> , 63:2042-2047 (1991) | | |
| <input type="checkbox"/> NK | Cameron et al., "Photogeneration of Organic Bases from o-Nitrobenzyl-Derived Carbamates," <u>J. Am. Chem. Soc.</u> , 113:4303-4313 (1991) | | |
| <input type="checkbox"/> NL | Carrano et al., "A High-Resolution, Fluorescence-Based, Semiautomated Method for DNA Fingerprinting," <u>Genomics</u> , 4:129-136 (1989) | | |
| <input checked="" type="checkbox"/> NM | Caruthers, M.H., "Gene Synthesis Machines: DNA Chemistry and Its Uses," <u>Science</u> , 230:281-285 (1985) | | |



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|---|--|-------------------------------------|-----------------------------|
| FORM PTO-1549 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |

| | | |
|--|----|--|
| <input checked="" type="checkbox"/> PP | NN | Chatterjee et al., "Inducible Alkylation of DNA Using an Oligonucleotide-Quinone Conjugate," <u>Am. J. Chem. Soc.</u> , 112:6397-6399 (1990) |
| <input type="checkbox"/> | NO | Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," <u>Science</u> , 274:610-614 (1996) |
| <input type="checkbox"/> | NP | Chehab et al., "Detection of sickle cell anaemia mutation by colour DNA amplification," <u>Lancet</u> , 335:15-17 (1990) |
| <input type="checkbox"/> | NQ | Chehab et al., "Detection of specific DNA sequences by fluorescence amplification: A color complementation assay," <u>PNAS</u> , 86:9178-9182 (1989) |
| <input type="checkbox"/> | NR | Chetverin et al., "Oligonucleotide Arrays: New Concepts and Possibilities," <u>Biotechnology</u> , 12:1093-1099 (1994). |
| <input type="checkbox"/> | NS | Church et al., "Multiplex DNA sequencing," <u>Science</u> , 240:185-188 (1988). |
| <input type="checkbox"/> | NT | Church et al., "Genomic sequencing," <u>PNAS</u> , 81:1991-1995 (1984). |
| <input type="checkbox"/> | NU | Clevite Corp., Piezoelectric Technology, Data for Engineers |
| <input type="checkbox"/> | NV | Corbett et al., "Reaction of Nitroso Aromatics with Glyoxylic Acid. A New Path to Hydroxamic Acids," <u>J. Org. Chem.</u> , 45:2834-2839 (1980) |
| <input type="checkbox"/> | NW | Coulson et al., "Toward a physical map of the genome of the nematode <i>Caenorhabditis elegans</i> ," <u>PNAS</u> , 83:7821-7825 (1986). |
| <input type="checkbox"/> | NX | Craig et al., "Ordering of cosmid clones covering the Herpes simplex virus type 1 (HSV-1) genome: a test case for fingerprinting by hybridization," <u>Nuc. Acid. Res.</u> , 18(9):2653-2660 (1990) |
| <input type="checkbox"/> | NY | Cummings et al., "Photoactivable Fluorophores. 1. Synthesis and Photoactivation of o-Nitrobenzyl-Quenched Fluorescent Carbamates," <u>Tetrahedron Letters</u> , 29(1):65-68 (1988) |
| <input type="checkbox"/> | NZ | Dattagupta et al., "Rapid identification of Microorganisms by Nucleic Acid Hybridization after Labeling the Test Sample," <u>Anal. Biochem.</u> , 177:85-89 (1989). |
| <input type="checkbox"/> | OA | Dattagupta et al., "Nucleic Acid Hybridization: a Rapid Method for the Diagnosis of Infectious Diseases," <u>Perspectives in Antiinfective Therapy</u> , eds. Jackson et al., pages 241-247 (1988). |
| <input type="checkbox"/> | OB | Dower et al., "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries," <u>Ann. Rep. Med. Chem.</u> , 26:271-280 (1991). |
| <input type="checkbox"/> | OC | Diggelmann, "Investigating the VLSIPS synthesis process," 9/9/94 |
| <input type="checkbox"/> | OD | Di Mauro et al., "DNA Technology in Chip Construction," <u>Adv. Mater.</u> , 5(5):384-386 (1993) |
| <input type="checkbox"/> | OE | Drmanac et al., "An Algorithm for the DNA Sequence Generation from k-Tuple Word Contents of the Minimal Number of Random Fragments," <u>J. Biomol. Struct. Dyn.</u> , 8(5):1085-1102 (1991). |
| <input type="checkbox"/> | OF | Drmanac et al., "Partial Sequencing by Oligo-Hybridization Concept and Applications in Genome Analysis," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 60-74 (1990) |
| <input type="checkbox"/> | OG | Drmanac et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program?," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 47-59 (1990) |
| <input type="checkbox"/> | OH | Drmanac et al., "Laboratory Methods, Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides," <u>DNA and Cell Biol.</u> , 9(7):527-534 (1990) |
| <input type="checkbox"/> | OI | Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: theory of the Method," <u>Genomics</u> , 4:114-128 (1989) |
| <input type="checkbox"/> | OJ | Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," abstract of presentation given at Cold Spring Harbor Symposium on Genome Mapping and Sequencing, 4/27/88 thru 5/1/88 |
| <input type="checkbox"/> | OK | Dulcey et al., "Deep UV Photochemistry of Chemisorbed Monolayers: Patterned Coplanar Molecular Assemblies," <u>Science</u> , 252:551-554 (1991) |
| <input type="checkbox"/> | OL | Duncan et al., "Affinity Chromatography of a Sequence-Specific DNA Binding Protein Using Teflon-Linked Oligonucleotides," <u>Analytical Biochemistry</u> , 169:104-108 (1988) |
| <input type="checkbox"/> | OM | Effenhauser et al., "Glass Chips for High-speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <u>Anal. Chem.</u> , 65:2637-2642 (1993) |
| <input checked="" type="checkbox"/> | ON | Effenhauser et al., "High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <u>Anal. Chem.</u> , 66:2949-2953 (1994) |



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| FORM PTO-1549 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| PP | OO | Ekins et al., "High Specific Activity Chemiluminescent and Fluorescent Markers: their Potential Application to High Sensitivity and 'Multi-analyte' Immunoassays," <u>J. Bioluminescence Chemiluminescence</u> , 4:59-78 (1989) | |
| | OP | Ekins et al., "Development of Microspot Multi-Analyte Ratiometric Immunoassay Using dual Fluorescent-Labelled Antibodies," <u>Anal. Chemica Acta</u> , 227:73-96 (1989) | |
| | OQ | Ekins et al., "Multianalyte Microspot Immunoassay-Microanalytical 'Compact Disk' of the Future," <u>Clin. Chem.</u> , 37(11):1955-1967 (1991) | |
| | OR | Ekins, R.P., "Multi-Analyte immunoassay*," <u>J. Pharmaceut. Biomedical Analysis</u> , 7(2):155-168 (1989) | |
| | OS | Ekins et al., "Fluorescence Spectroscopy and its Application to a New Generation of High Sensitivity, Multi-Microspot, Multianalyte, Immunoassay," <u>Clin. Chim. Acta</u> , 194:91-114 (1990) | |
| | OT | Elder, J.K., "Analysis of DNA Oligonucleotide Hybridization Data by Maximum Entropy," in <i>Maximum Entropy and Bayesian Methods</i> , eds. Mohammad-Djafari and Demoment, Kluwer, Dordrecht, pp. 363-371 (1992). | |
| | OU | Ellis, R.W., "The Applications of Synthetic Oligonucleotides to Molecular Biology," <u>Pharmaceutical Research</u> , 3(4):195-207 (1986). | |
| | OV | Evans et al., "Microfabrication for Automation of Molecular processes in Human Genome Analysis," <u>Clin. Chem.</u> , 41(11):1681 (1995) | |
| | OW | Evans et al., "Physical mapping of complex genomes by cosmid multiplex analysis," <u>PNAS</u> , 86:5030-5034 (1989) | |
| | OX | Ezaki et al., "Small-Scale DNA Preparation for Rapid Genetic Identification of <i>Campylobacter</i> Species without Radioisotope," <u>Microbiol. Immunology</u> , 32(2):141-150 (1988) | |
| | OY | Fan et al., "Mapping small DNA sequences by fluorescence <i>in situ</i> hybridization directly on banded metaphase chromosomes," <u>PNAS</u> , 87(16):6223-6227 (1990) | |
| | OZ | Fan et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> , 66:177-184 (1994) | |
| | PA | Feinberg et al., ADDENDUM to "A technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity," <u>Anal. Biochem.</u> , 137:266-267 (1984). | |
| | PB | Fettingner et al., "Stacked modules for micro flow systems in chemical analysis: concept and studies using an enlarged model," <u>Sensors and Actuators</u> , B17:19-25 (1993) | |
| | PC | Flanders et al., "A new interferometric alignment technique," <u>App. Phys. Ltrs.</u> , 31(7):426-429 (1977) | |
| | PD | Fodor et al., "Multiplexed biochemical assays with biological chips," <u>Nature</u> , 364:555-556 (1993) | |
| | PE | Fodor et al., "Light-directed, Spatially Addressable Parallel Chemical Synthesis," <u>Science</u> , 251:767-773 (1991) | |
| | PF | Forman et al., "Thermodynamics of Duplex Formation and Mismatch Discrimination on Photolithographically Synthesized Oligonucleotide Arrays," chapter 13pgs. 206-228 from <i>Molecular Modeling of Nucleic Acids</i> , ACS Symposium Series 682, 4/13-17/97, Leontis et al., eds. | |
| | PG | Frank et al., "Simultaneous Multiple Peptide Synthesis Under Continuous flow Conditions on Cellulose Paper Discs as Segmental Solid Supports," <u>Tetrahedron</u> , 44(19):6031-6040 (1988) | |
| | PH | Frank et al., "Automation of DNA Sequencing Reactions and Related Techniques: A Workstation for Micromanipulation of Liquids," <u>Bio/Technology</u> , 6:1211-1212 (1988) | |
| | PI | Frank et al., "Simultaneous Synthesis and Biological Applications of DNA Fragments: An Efficient and Complete Methodology," <u>Methods in Enzymology</u> , 154:221-250 (1987) | |
| | PJ | Fuhr et al., "Travelling wave-driven microfabricated electrohydrodynamic pumps for liquids," <u>J. Micromech. Microeng.</u> , 4:217-226 (1994) | |
| | PK | Fuller et al., "Urethane-Protected Amino Acid N-Carboxy Anhydrides and Their Use in Peptide Synthesis," <u>J. Amer. Chem. Soc.</u> , 112(20):7414-7416 (1990) | |
| | PL | Furka et al., "General method for rapid synthesis of multicomponent peptide mixtures," <u>Int. J. Peptide Protein Res.</u> , 37:487-493 (1991) | |
| | PM | Furka et al., "Cornucopia of Peptides by Synthesis," 14th Int.Congress of Biochem. abst.# FR:013, 7/10-15/88 Prague, Czechoslovakia | |
| | PN | Furka et al., "More Peptides by Less Labour," abst. 288, Int. Symp. Med. Chem., Budapest Hungary 8/15-19/88 | |

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|---|---|-------------------------------------|-----------------------------|
| FORM PTO-1449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| FIRST PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <u>PP</u> PO | Gait, eds., pages 1-115 from <i>Oligonucleotide Synthesis: A Practical Approach</i> , IRL Press, (1984) | | |
| PP | Gazard et al., "Lithographic Technique Using Radiation-Induced Grafting of Acrylic Acid into Poly(Methyl Methacrylate) Films," <i>Polymer Engineering and Science</i> , 20(16):1069-1072 (1980) | | |
| PQ | Gergen et al., "Filter replicas and permanent collections of recombinant DNA plasmids," <i>Nuc. Acids Res.</i> , 7(8):2115-2137 (1979) | | |
| PR | Getzoff et al., "Mechanisms of Antibody Binding to a Protein," <i>Science</i> , 235:1191-1196 (1987) | | |
| PS | Geysen et al., "Strategies for epitope analysis using peptide synthesis," <i>J. Immunol. Meth.</i> , 102:259-274 (1987) | | |
| PT | Geysen et al., "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," <i>PNAS</i> , 81:3998-4002 (1984) | | |
| PU | Geysen et al., "A synthetic strategy for epitope mapping," from <i>Peptides: Chem. & Biol.</i> , Proc. of 10th Am. Peptide Symp., 5/23-28/87, pp. 519-523, (1987) | | |
| PV | Geysen, "Antigen-antibody interactions at the molecular level: adventures in peptide synthesis," <i>Immunol. Today</i> , 6(12):364-369 (1985) | | |
| PW | Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," from <i>Synthetic Peptides: Approaches to Biological Probes</i> , pp. 19-30, (1989) | | |
| PX | Geysen et al., "Chemistry of Antibody Binding to a Protein," <i>Science</i> , 235:1184-1190 (1987) | | |
| PY | Geysen et al., "The delineation of peptides able to mimic assembled epitopes," 1986 CIBA Symp., pp. 130-149 | | |
| PZ | Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," <i>Mol. Recognit.</i> , 1(1):1-10 (1988) | | |
| QA | Geysen et al., "A Prio Ri Delineation of a Peptide Which Mimics A Discontinuous Antigenic Determinant," <i>Mol. Immunol.</i> , 23(7):709-715 (1986) | | |
| QB | Ghosh et al., "Covalent attachment of oligonucleotides to solid supports," <i>Nuc. Acids Res.</i> , 15(13):5353-5373 (1987). | | |
| QC | Gilon et al., "Backbone Cyclization: A New Method for Conferring Conformational Constraint on Peptides," <i>Biopolymers</i> , 31(6):745-750 (1991) | | |
| QD | Gingeras et al., "Hybridization properties of immobilized nucleic acids," <i>Nuc. Acids Res.</i> , 15(13):5373-5390 (87) | | |
| QE | Gummerlock et al., "RAS Enzyme-Linked Immunoblot Assay Discriminates p21 Species: A Technique to Dissect Gene Family Expression," <i>Anal. Biochem.</i> , 180:158-168 (1989) | | |
| QF | Gurney et al., "Activation of a potassium current by rapid photochemically generated step increases of intracellular calcium in rat sympathetic neurons," <i>PNAS</i> , 84:3496-3500 (1987) | | |
| QG | Haase et al., "Detection of Two Viral Genomes in Single Cells by Double-Label Hybridization in Situ and Color Microradioautography," <i>Science</i> , 227:189-192 (1985) | | |
| QH | Hacia, et al., "Two color hybridization analysis using high density oligonucleotide arrays and energy transfer dyes," <i>Nuc. Acids Res.</i> , 26(16):3865-3866 (1998) | | |
| QI | Hack, M.L., "Conics Formed to Make Fluid & Industrial Gas Micromachines," <i>Genetic Engineering News</i> , 15(18):1, 29 (1995) | | |
| QJ | Hagedorn et al., "Pumping of Water Solutions in Microfabricated Electrohydrodynamic Systems," from <i>Micro Electro Mechanical Systems conference in Travemunde Germany</i> (1992) | | |
| QK | Hames et al., <i>Nuclear acid hybridization, a practical approach</i> , cover page and table of contents (1985) | | |
| QL | Hanahan et al., "Plasmid Screening at High Colony Density," <i>Meth. Enzymology</i> , 100:333-342 (1983) | | |
| QM | Hanahan et al., "Plasmid screening at high colony density," <i>Gene</i> , 10:63-67 (1980) | | |
| QN | Haridasan et al., "Peptide Synthesis using Photolytically Cleavable 2-Nitrobenzyloxycarbonyl Protecting Group," <i>Proc. Indian Natn. Sci. Acad.</i> , 53A(6):717-728 (1987) | | |
| QO | Harrison et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <i>Anal. Chem.</i> , 64:1926-1932 (1992) | | |
| ✓ QP | Harrison et al., "Micromachining a Minaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <i>Science</i> , 261:895-897 (1993) | | |

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| FORM PTO-449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <input checked="" type="checkbox"/> PP | Harrison et al., "Towards minaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors*," <u>Sensors and Actuators</u> , B10:107-116 (1993) | | |
| <input type="checkbox"/> QR | Harrison et al., "Rapid separation of fluorescein derivatives using a micromachined capillary electrophoresis system," <u>Analytica Chimica Acta</u> , 283:361-366 (1993) | | |
| <input type="checkbox"/> QS | Hellberg et al., "Minimum analogue peptide sets (MAPS) for quantitative structure-activity relationships," <u>Int. J. Peptide Protein Res.</u> , 37:414-424 (1991) | | |
| <input type="checkbox"/> QT | Hilser et al., "Protein and peptide mobility in capillary zone electrophoresis, A comparison of existing models and further analysis," <u>J. Chromatography</u> , 630:329-336 (1993) | | |
| <input type="checkbox"/> QU | Ho et al., "Highly Stable Biosensor Using an Artificial Enzyme," <u>Anal.Chem.</u> , 59:536-537 (1987) | | |
| <input type="checkbox"/> QV | Hochgeschwender et al., "Preferential expression of a defined T-cell receptor β -chain gene in hapten-specific cytotoxic T-cell clones," <u>Nature</u> , 322:376-378 (1986) | | |
| <input type="checkbox"/> QW | Hodgson, J., "Assays A La Photolithography," <u>Biotech.</u> , 9:419 (1991) | | |
| <input type="checkbox"/> QX | Hodgson et al., "Hybridization probe size control: optimized 'oligolabelling'," <u>Nuc.Acids Res.</u> , 15(15):6295 (1987). | | |
| <input type="checkbox"/> QY | Hopman et al., "Bi-color detection of two target DNAs by non-radioactive in situ hybridization*," <u>Histochem.</u> , 85:1-4 (1986) | | |
| <input type="checkbox"/> QZ | Iwamura et al., "1-Pyrenylmethyl Esters, Photolabile Protecting Groups for Carboxylic Acids," <u>Tetrahedron Ltrs.</u> , 28(6):679-682 (1987) | | |
| <input type="checkbox"/> RA | Iwamura et al., "1-(α -Diazobenzyl)pyrene: A Reagent for Photolabile and Fluorescent Protection of Carboxyl Groups of Amino Acids and Peptides," <u>Synlett</u> , p. 35-36 (1991) | | |
| <input type="checkbox"/> RB | Jacobson et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> , 66:1107-1113 (1994) | | |
| <input type="checkbox"/> RC | Jacobsen et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. chem.</u> , 66:2369-2373 (1994) | | |
| <input type="checkbox"/> RD | Jacobson et al., "Microchip Capillary Electrophoresis with an Integrated Postcolumn Reactor" <u>Anal. Chem.</u> , 66:3472-3476 (1994) | | |
| <input type="checkbox"/> RE | Jacobson et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> , 66:4127-4132 (1994) | | |
| <input type="checkbox"/> RF | Jacobson et al., "Microfabricated chemical measurement systems," <u>Nature Medicine</u> , 1(10):1093-1096 (1995) | | |
| <input type="checkbox"/> RG | Jacobsen et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. chem.</u> , 67:2059-2063 (1995) | | |
| <input type="checkbox"/> RH | Jacobson et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> , 66:1114-1118 (1994) | | |
| <input type="checkbox"/> RI | Jacobson et al., "Microchip electrophoresis with sample stacking," <u>Electrophoresis</u> , 16:481-486 (1995) | | |
| <input type="checkbox"/> RJ | Jayakumari, "Peptide synthesis in a triphasic medium catalysed by papain immobilized on a crosslinked polystyrene support," <u>Indian J. Chemistry</u> , 29B:514-517 (1990) | | |
| <input type="checkbox"/> RK | Jovin et al., "Luminescence Digital Imaging Microscopy," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:271-308 (1989). | | |
| <input type="checkbox"/> RL | Kafatos et al., "Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure," <u>Nuc. Acids Res.</u> , 7(6):1541-1553 (1979). | | |
| <input type="checkbox"/> RM | Kaiser et al., "Peptide and Protein Synthesis by Segment Synthesis-Condensation," <u>Science</u> , 243:187-192 (1989) | | |
| <input type="checkbox"/> RN | Kaplan et al., "Photolabile chelators for the rapid photorelease of divalent cations," <u>PNAS</u> , 85:6571-6575 (1988) | | |
| <input type="checkbox"/> RO | Karube, "Micro-biosensors based on silicon fabrication technology," chapter 25 from <u>Biosensors:Fundamentals and Applications</u> , Turner et al., eds., Oxford Publ., 1987, pgs. 471-480 (1987) | | |
| <input type="checkbox"/> RP | Kates et al., "A Novel, Convenient, Three-dimensional Orthogonal Strategy for Solid-Phase Synthesis of Cyclic Peptides 1-3," <u>Tetrahed. Letters</u> , 34(10):1549-1552 (1993) | | |
| <input checked="" type="checkbox"/> RQ | Kerkof et al., "A Procedure for Making Simultaneous Determinations of the Relative Levels of Gene Transcripts in Tissues or Cells," <u>Anal. Biochem.</u> , 188:349-355 (1990) | | |

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FORM PTO-159 (Modified)

Attorney Docket No.: 18547-043210US

Application No.: 09/654,948

STATEMENT OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

Applicant: Pirrung et al.

Filing Date: September 1, 2000

Group: ~~1643~~ 1627

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| PP | RR | Khrapko et al., "An Oligonucleotide hybridization approach to DNA sequencing," <u>FEBS Lett.</u> , 256(1,2):118-122 (1989) |
| | RS | Khrapko et al., "A method for DNA sequencing by hybridization with oligonucleotide matrix," <u>DNA Seq. Map.</u> , 1:375-388 (1991). |
| | RT | Kidd et al., " α_1 -Antitrypsin deficiency detection by direct analysis of the mutation in the gene," <u>Nature</u> , 304:230-234 (1983). |
| | RU | Kievits et al., "Rapid subchromosomal localization of cosmids by nonradioactive in situ hybridization," <u>Cytogenetics Cell Genetics</u> , 53(2-3):134-136 (1990) |
| | RV | Kimura et al., "An Immobilized Enzyme Membrane Fabrication Method using an Ink Jet Nozzle," <u>Biosensors</u> , 4:41-52 (1988) |
| | RW | Kimura et al., "An Integrated SOS/FET Multi-Biosensor," <u>Sensors & Actuators</u> , 9:373-387 (1986) |
| | RX | Kitazawa et al., "In situ DNA-RNA hybridization using in vivo bromodeoxyuridine-labeled DNA probe," <u>Histochemistry</u> , 92:195-199 (1989) |
| | RY | Kleinfeld et al., "Controlled Outgrowth of Dissociated Neurons on Patterned Substrates," <u>J. Neurosci.</u> , 8(11):4098-4120 (1988) |
| | RZ | Knight, P., "Materials and Methods/Microsequencers for Proteins and Oligosaccharides," <u>Bio/Tech.</u> , 7:1075-76 (1989) |
| | SA | Kohara et al., "The Physical Map of the Whole E. coli Chromosome: Application of a New Strategy for Rapid Analysis and Sorting of a Large Genomic Library," <u>Cell</u> , 50:495-508 (1987) |
| | SB | Krile et al., "Multiplex holography with chirp-modulated binary phase-coded reference-beam masks," <u>Applied Opt.</u> , 18(1):52-56 (1979) |
| | SC | Labat, I., "Subfragments as an informative characteristic of the DNA molecule - computer simulation," research report submitted to the University of Belgrade College of Natural Sciences and Mathematics, (1988) |
| | SD | Lander et al., "Genomic Mapping by Fingerprinting Random Clones: A Mathematical Analysis," <u>Genomics</u> , 2:231-239 (1988). |
| | SE | Lainer et al., "Human Lymphocyte Subpopulations Identified by Using Three-Color Immunofluorescence and Flow Cytometry Analysis: Correlation of Leu-2, Leu-3, Leu-7, Leu-8, and Leu-11 Cell Surface Antigen Expression," <u>Journal of Immunology</u> , 132(1):151-156 (1984) |
| | SF | Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," <u>Nature</u> , 354:82-84 (1991) |
| | SG | Laskey et al., "Messenger RNA prevalence in sea urchin embryos measured with cloned cDNAs," <u>PNAS</u> , 77(9):5317-5321 (1980) |
| | SH | Lee et al., "synthesis of a Polymer Surface Containing Covalently Attached Triethoxysilane Functionality: Adhesion to Glass," <u>Macromolecules</u> , 21:3353-3356 (1988) |
| | SI | Lehrach et al., "Labelling oligonucleotides to high specific activity (I)," <u>Nuc. Acids Res.</u> , 17(12):4605-4610 (89) |
| | SJ | Lehrach et al., "Phage Vectors - EMBL Series," <u>Meth. Enzymology</u> , 153:103-115 (1987) |
| | SK | Lehrach et al., "Hybridization Fingerprinting in Genome Mapping and Sequencing," <u>Genome Analysis Volume 1: Genetic and Physical Mapping</u> , Cold Spring Harbor Laboratory Press, pages 39-81 (1990). |
| | SL | Levy, M.F., "Preparing Additive Printed Circuits," <u>IBM Tech. Discl. Bull.</u> , 9(11):1473 (1967) |
| | SM | Lewin, Benjamin, eds., <u>Genes</u> , third edition, John Wiley & Sons, cover page, preface and table of contents, (1987). |
| | SN | Lichter et al., "High-Resolution Mapping of Human Chromosome 11 by in Situ hybridization with Cosmid Clones," <u>Science</u> , 247:64-69 (1990) |
| | SO | Lichter et al., "Fluorescence in situ hybridization with <i>Alu</i> and L1 polymerase chain reaction probes for rapid characterization of human chromosomes in hybrid cell lines," <u>PNAS</u> , 87:6634-6638 (1990) |
| | SP | Lichter et al., "Rapid detection of human chromosome 21 aberrations by in situ hybridization," <u>PNAS</u> , 85:9664-9668 (1988) |
| | SQ | Lichter et al., "Is non-isotopic in situ hybridization finally coming of age," <u>Nature</u> , 345:93-94 (1990) |

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| FORM PTO-449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <input checked="" type="checkbox"/> SR | Lieberman et al., "A Light source Smaller Than the Optical Wavelength," <u>Science</u> , 247:59-61 (1990) | | |
| <input type="checkbox"/> SS | Lipshutz et al., "Using Oligonucleotide Probe Arrays To Access Genetic Diversity," <u>BioTech.</u> , 19(3):442-7 (1995) | | |
| <input type="checkbox"/> ST | Little, P., "Clone maps made simple," <u>Nature</u> , 346:611-612 (1990). | | |
| <input type="checkbox"/> SU | Liu et al., "Sequential Injection Analysis in Capillary Format with an Electroosmotic Pump," <u>Talanta</u> , 41(11):1903-1910 (1994) | | |
| <input type="checkbox"/> SV | Lockhart et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," <u>Nat. Biotech.</u> , 14:1675-1680 (1996) | | |
| <input type="checkbox"/> SW | Logue et al., "General Approaches to Mask Design for Binary Optics," <u>SPIE</u> , 1052:19-24 (1989) | | |
| <input type="checkbox"/> SX | Loken et al., "three-color Immunofluorescence Analysis of Leu Antigens on Human Peripheral Blood Using Two Lasers on a Fluorescence-Activated Cell Sorter," <u>Cytoetry</u> , 5:151-158 (1984) | | |
| <input type="checkbox"/> SY | Love et al., "Screening of λ Library for Differentially Expressed Genes Using <i>in Vitro</i> Transcripts," <u>Anal. Biochem.</u> , 150:429-441 (1985) | | |
| <input type="checkbox"/> SZ | Lowe, C.R., "Biosensors," <u>Trends in Biotech.</u> , 2:59-65 (1984) | | |
| <input type="checkbox"/> TA | Lowe, C.R., "An Introduction to the Concepts and Technology of Biosensors," <u>Biosensors</u> , 1:3-16 (1985) | | |
| <input type="checkbox"/> TB | Lowe, C. R., <u>Biotechnology and Crop Improvement and Protection</u> , BCPC Publications, pp. 131-138 (1986) | | |
| <input type="checkbox"/> TC | Lowe et al., "Solid-Phase Optoelectronic Biosensors," <u>Methods in Enzymology</u> , 137:338-347 (1988) | | |
| <input type="checkbox"/> TD | Lowe, C.R., "Biosensors," <u>Phil. Tran. R. Soc. Lond.</u> , 324:487-496 (1989) | | |
| <input type="checkbox"/> TE | Lu et al., "Differential screening of murine ascites cDNA libraries by means of <i>in vitro</i> transcripts of cell-cycle-phase-specific cDNA and digital image processing," <u>Gene</u> , 86:185-192 (1990) | | |
| <input type="checkbox"/> TF | Luo, J. et al., "Improving the fidelity of <i>Thermus thermophilus</i> DNA ligase," <u>Nuc.Acids Res.</u> , 24(14):3071-3078 (1996). | | |
| <input type="checkbox"/> TG | Lysov et al., "A new method for determining the DNA nucleotide sequence by hybridization with oligonucleotides," <u>Doklady Biochem.</u> , 303(1-6):436-438 (1989) | | |
| <input type="checkbox"/> TH | Lysov et al., "DNA Sequencing by Oligonucleotide Hybridization," First International Conference on Electrophoresis, Supercomputing and the Human Genome, 4/10-13/90 p.157 | | |
| <input type="checkbox"/> TI | MacDonald et al., "A Rapid ELISA for Measuring Insulin in a Large Number of Research Samples," <u>Metabolism</u> , 38(5):450-452 (1989) | | |
| <input type="checkbox"/> TJ | Mairanovsky, V.G., "Electro-Deprotection- Electrochemical Removal of Protecting Groups**," <u>Agnew. Chem. Int. Ed. Engl.</u> , 15(5):281-292 (1976) | | |
| <input type="checkbox"/> TK | Manz et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> , B1:244-248 (1990) | | |
| <input type="checkbox"/> TL | Manz et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems, A look into next century's technology or just a fashionable craze?," <u>Trends in Analytical Chem.</u> , 10(5):144-149 (1991) | | |
| <input type="checkbox"/> TM | Manz et al., "Planar chips technology for minaturization and integration of separation techniques into monitoring systems, Capillary electrophoresis on a chip," <u>J. Chromatography</u> , 593:253-258 (1992) | | |
| <input type="checkbox"/> TN | Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring," chapter 1, 1-64 (1993) | | |
| <input type="checkbox"/> TO | Manz et al., "Electroosmotic pumping and electrophoretic separations for minaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:257-265 (1994) | | |
| <input type="checkbox"/> TP | Masiakowski et al., "Cloning of cDNA sequences of hormone-regulated genes from the MCF-7 human breast cancer cell line," <u>Nuc. Acids Res.</u> , 10(24):7895-7903 (1982) | | |
| <input type="checkbox"/> TQ | Matsumoto et al., "Preliminary Investigation of Micropumping Based on Electrical Control of Interfacial Tension," <u>IEEE</u> , pgs. 105-110 (1990) | | |
| <input checked="" type="checkbox"/> TR | Matsuzawa et al., "Containment and growth of neuroblastoma cells on chemically patterned substrates," <u>J. Neurosci. Meth.</u> , 50:253-260 (1993) | | |

APR 23 2001

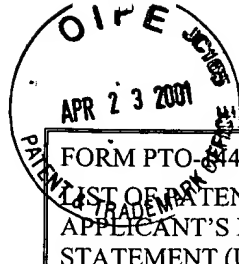
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| FORM PTO-449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| STATE OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <u>PP</u> TS | Matthes et al., "Simultaneous rapid chemical synthesis of over one hundred oligonucleotides on a microscale," <u>EMBO J.</u> , 3(4):801-805 (1984). | | |
| TT | McCray et al., "Properties and Uses of Photoreactive Caged Compounds," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:239-270 (1989) | | |
| TU | McGall et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates," <u>J. American Chem. Soc.</u> , 119(22):5081-5090 (1997) | | |
| TV | McGillis, VLSI Technology, Sze, eds., Chapter 7, "Lithography," pp. 267-301 (1983) | | |
| TW | McMurray, J.S., "Solid Phase Synthesis of a Cyclic Peptide Using Fmoc Chemistry," <u>Tetrahedron Letters</u> , 32(52):7679-7682 (1991) | | |
| TX | Meinkoth et al., "Review: Hybridization of Nucleic Acids Immobilized on solid Supports," <u>Analytical Biochem.</u> , 138:267-284 (1984) | | |
| TY | Melcher et al., "Traveling-Wave Bulk Electroconvection Induced across a Temperature Gradient," <u>Physics of Fluids</u> , 10(6):1178-1185 (1967) | | |
| TZ | Merrifield, R.B., "Solid Phase peptide Synthesis. I. The Synthesis of a Tetrapeptide," <u>J. Am. Chem. Soc.</u> , 85:2149-2154 (1963) | | |
| UA | Michiels et al., "Molecular approaches to genome analysis: a strategy for the construction of ordered overlapping clone libraries," <u>CABIOS</u> , 3(3):203-10 (1987) | | |
| UB | Mirzabekov, A.D., "DNA sequencing by hybridization - a megasequencing method and a diagnostic tool?," <u>TIBTECH</u> , 12:27-32 (1994) | | |
| UC | Miyada et al., "Oligonucleotide Hybridization Techniques," <u>Meth. Enzymology</u> , 154:94-107 (1987). | | |
| UD | Monaco et al., "Human Genome Linking with Cosmids and Yeast Artificial Chromosomes", abstract from CSHS, pg. 50, (1989) | | |
| UE | Morita et al., "Direct pattern fabrication on silicone resin by vapor phase electron beam polymerization," <u>J. Vac. Sci. Technol.</u> , B1(4):1171-1173 (1983) | | |
| UF | Morrison et al., "Solution-Phase Detection of Polynucleotides Using Interacting Fluorescent Labels and Competitive Hybridization," <u>Anal. Biochem.</u> , 183:231-244 (1989) | | |
| UG | Munegumi et al., "thermal Synthesis of Polypeptides from N-Boc-Amino Acid (Aspartic Acid, β -Aminoglutaric Acid) Anhydrides," <u>Chem. Letters</u> , pgs. 1643-1646 (1988) | | |
| UH | Mutter et al., "Impact of Conformation on the Synthetic Strategies for Peptide Sequences," pgs. 217-228 from Chemistry of Peptides and Proteins, Vol. 1, Proceedings of the Third USSR-FRG Symp., in USSR (1982) | | |
| UI | Nakamori et al., "A Simple and Useful Method for Simultaneous Screening of Elevated Levels of Expression of a Variety of Oncogenes in Malignant Cells," <u>Jpn. J. Cancer Res.</u> , 79:1311-1317 (1988) | | |
| UJ | Nederlof et al., "Multiple Fluorescence In Situ Hybridization," <u>Cytometry</u> , 11:126-131 (1990) | | |
| UK | Nederlof et al., "Three-Color Fluorescence In Situ Hybridization for the Simultaneous Detection of Multiple Nucleic Acid Sequences," <u>Cytometry</u> , 10:20-27 (1989). | | |
| UL | Nizetic et al., "An improved bacterial colony lysis procedure enables direct DNA hybridisation using short (10, 11 bases) oligonucleotides to cosmids," <u>Nuc. Acids Res.</u> , 19(1):182 (1990). | | |
| UM | Nizetic et al., "Construction, arraying, and high-density screening of large insert libraries of human chromosomes X and 21: their potential use as reference libraries," <u>PNAS</u> , 88:3233-3237 (1991). | | |
| UN | Nyborg, W., "Acoustic Streaming," chapter 11 pgs. 265-329 from Physical Acoustics, Principles and Methods, Mason, eds., vol. II, part B, Academic Press, New York and London (1965) | | |
| UO | Ocvirk et al., "High Performance Liquid Chromatography Partially Integrated onto a Silicon Chip," <u>Analyt. Meth. Instrumentation</u> , 2(2):74-82 (1995) | | |
| UP | Ohtsuka et al., "Studies on transfer ribonucleic acids and related compounds. IX Ribonucleic oligonucleotide synthesis using a photosensitive 0-nitrobenzyl protection at the 2' -hydroxyl group," <u>Nuc. Acids Res.</u> , 1(10):1351-1357 (1974) | | |
| UQ | Olefirowicz et al., "Capillary Electrophoresis for Sampling Single Nerve Cells," <u>Chimia</u> , 45(4):106-108 (1991) | | |

APR 23 2001

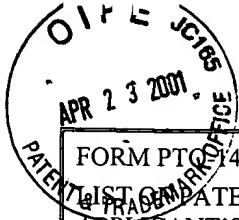
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| FORM PTO-8449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| STATE OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <input checked="" type="checkbox"/> UR | Olson et al., "Random-clone strategy for genomic restriction mapping in yeast," <u>PNAS</u> , 83:7826-7830 (1986). | | |
| <input type="checkbox"/> US | Patchornik et al., "Photosensitive Protecting Groups," <u>J. Am. Chem. Soc.</u> , 92(21):6333-6335 (1970) | | |
| <input type="checkbox"/> UT | Patent Abstracts of Japan from EPO, Abst. 13:557, JP 1-233 447 (1989) | | |
| <input type="checkbox"/> UU | Pease et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," <u>PNAS</u> , 91:5022-26 (1994) | | |
| <input type="checkbox"/> UV | Pevzner, P.A., "DNA Physical Mapping and Alternating Eulerian Cycles in Colored Grapes," <u>Algorithmica</u> , 13(1-2):77-105 (1995). | | |
| <input type="checkbox"/> UW | Pevzner et al., "Multiple Filtration and Approximate Pattern Matching," <u>Algorithmica</u> , 13(1-2):135-154 (1995). | | |
| <input type="checkbox"/> UX | Pevzner et al., "Generalized Sequence Alignment and Duality," <u>Adv. Applied Math.</u> , 14:139-171 (1993). | | |
| <input type="checkbox"/> UY | Pevzner, P.A., "1-Tuple DNA Sequencing: Computer Analysis," <u>J. Biomol. Struct. Dynam.</u> , 7(1):63-69 (1989) | | |
| <input type="checkbox"/> UZ | Pfahler et al., "Liquid Transport in Micron and Submicron Channels," <u>Sensors and Actuators</u> , A21-A23:431-4 (90) | | |
| <input type="checkbox"/> VA | Pfeifer et al., "Genomic Sequencing and Methylation Analysis by Ligation Mediated PCR," <u>Science</u> , 246:810-813 (1989). | | |
| <input type="checkbox"/> VB | Pidgeon et al., "Immobilized Artificial Membrane Chromatography: Supports Composed of Membrane Lipids," <u>Anal. Biochem.</u> , 176:36-47 (89) | | |
| <input type="checkbox"/> VC | Pillai, V.N., "Photoremovable Protecting Groups in Organic Synthesis," <u>Synthesis</u> , pgs. 1-26 (1980) | | |
| <input type="checkbox"/> VD | Pillai et al., "3-Nitro-4-Aminomethylbenzoyl-derivate von Polyethylenglykolen: Eine neue Klasse von Photosensitiven loslichen Polymeren Tragern zur Synthese von C-terminalen Peptidamiden," <u>Tetrah. Ltr.</u> , # 36 p. 3409-3412 (1979) | | |
| <input type="checkbox"/> VE | Pillai et al., "Synthetic Hydrophilic Polymers, Biomedical and Chemical Applications," <u>Naturwissenschaften</u> , 68:558-566 (1981) | | |
| <input type="checkbox"/> VF | Pirrung et al., "Proofing of Photolithographic DNA Synthesis with 3'.5'-Dimethoxybenzoinyloxycarbonyl-Protected Deoxynucleoside Phosphoramidites," <u>J. Org. Chem.</u> , 63(2):241-246 (1998) | | |
| <input type="checkbox"/> VG | Pirrung et al., "Comparison of Methods for Photochemical Phosphoramidite-Based DNA Synthesis," <u>J. Org. Chem.</u> , 60:6270-6276 (1995) | | |
| <input type="checkbox"/> VH | Ploax et al., "Cyclization of peptides on a solid support," <u>Int. J. Peptide Protein Research</u> , 29:162-169 (1987) | | |
| <input type="checkbox"/> VI | Polsky-Cynkin et al., "Use of DNA Immobilized on Plastic and Agarose Supports to Detect DNA by Sandwich Hybridization," <u>Clin. Chem.</u> , 31(9):1428-1443 (1985) | | |
| <input type="checkbox"/> VJ | Poustka et al., "Molecular Approaches to Mammalian Genetics," Cold Spring Harbor Symposia on Quantitative Biology, 51:131-139 (1986) | | |
| <input type="checkbox"/> VK | Purushothaman et al., "Synthesis of 4,5-diarylimidazoline-2-thiones and their photoconversion to bis(4,5-diarylimidazol-2-yl) sulphides," <u>Ind. J. Chem.</u> , 29B:18-21 (1990) | | |
| <input type="checkbox"/> VL | Quesada et al., "High-Sensitivity DNA Detection with a Laser-Exited Confocal Fluorescence Gel Scanner," <u>Biotechniques</u> , 10:616 (1991) | | |
| <input type="checkbox"/> VM | Reichmanis et al., <u>J. Polymer Sci. Polymer Chem. Edition</u> , 23:1-8 (1985) | | |
| <input type="checkbox"/> VN | Renz et al., "A colorimetric method for DNA hybridization," <u>Nuc. Acids Res.</u> , 12(8):3435-3445 (1984). | | |
| <input type="checkbox"/> VO | Richter et al., "An Electrohydrodynamic Micropump," <u>IEEE</u> , pgs. 99-104 (1990) | | |
| <input type="checkbox"/> VP | Richter et al., "Electrohydrodynamic Pumping and Flow Measurement," <u>IEEE</u> , pgs. 271-276 (1991) | | |
| <input type="checkbox"/> VQ | Richter et al., "A Micromachined electrohydrodynamic (EHD) pump," <u>Sensors and Actuators</u> , A29:159-168 (91) | | |
| <input type="checkbox"/> VR | Robertson et al., "A General and Efficient Route for Chemical Aminoacylation of Transfer RNAs," <u>J. Am. Chem. Soc.</u> , 113:2722-2729 (1991). | | |
| <input type="checkbox"/> VS | Rodda et al., "The Antibody Response to Myoglobin-I. Systematic Synthesis of Myoglobin Peptides Reveals Location and Substructure of Species-Dependent Continuous Antigenic Determinants," <u>Mol. Immunol.</u> , 23(6):603-610 (1986) | | |
| <input checked="" type="checkbox"/> VT | Rodgers, R.P., "Data Processing of Immunoassay Results," Manual of Clin. Lab. Immunol., 3rd ed., ch. 15, pgs. 82-87 (1986) | | |

APR 23 2001

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| FORM PTO 449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| DISCLOSURE OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <u>PP</u> VU | Rose, D.J., "Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis," <u>J. Chromatography</u> , 540:343-353 (1991) | | |
| VV | Rovero et al., "Synthesis of Cyclic Peptides on solid Support," <u>Tetrahed. Letters</u> , 32(23):2639-2642 (1991) | | |
| VW | Sambrook, Molecular Cloning - A Laboratory Manual, publ. in 1989 (not included) | | |
| VX | Saiki et al., "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes," <u>PNAS</u> , 86:6230-6234 (1989) | | |
| VY | Saiki et al., "Analysis of enzymatically amplified β -globin and HLA-DQ α DNA with Allele-specific oligonucleotide probes," <u>Nature</u> , 324:163-166 (1986) | | |
| VZ | Schafer et al., "DNA fingerprinting using non-radioactive oligonucleotide probes specific for simple repeats," <u>Nuc. Acids Res.</u> , 16(19):9344 (1988). | | |
| WA | Scharf et al., "HLA class II allelic variation and susceptibility to pemphigus vulgaris," <u>PNAS</u> , 85(10):3504-3508 (1988) | | |
| WB | Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <u>PNAS</u> , 93:10614-10619 (1996). | | |
| WC | Schuup et al., "Mechanistic Studies of the Photorearrangement of o-Nitrobenzyl Esters," <u>J. Photochem.</u> , 36:85-97 (1987) | | |
| WD | Seed, B., "Diazotizable arylamine cellulose papers for the coupling and hybridization of nucleic acids," <u>Nuc. Acids Res.</u> , 10(5):1799-1810 (1982). | | |
| WE | Seiler et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> , 65:1481-1488 (1993) | | |
| WF | Seller et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> , 66:3485-3491 (1994) | | |
| WG | Sammelhack et al., "Selective Removal of Protecting Groups Using Controlled Potential Electrolysis," <u>J. Am. Chem. Society</u> , 94(14):5139-5140 (1972) | | |
| WH | Sheldon et al., "Matrix DNA Hybridization," <u>Clinical Chemistry</u> , 39(4):718-719 (1993) | | |
| WI | Shin et al., "Dehydrooligonopeptides. XI. Facile Synthesis of Various Kinds of Dehydrodi- and tripeptides, and Dehydroenkephalins Containing Tyr Residue by Using N-Carboxydehydrotyrosine Anhydride," <u>Bull. Chem. Soc. Jpn.</u> , 62:1127-1135 (1989) | | |
| WJ | Sim et al., "Use of a cDNA Library for Studies on Evolution and Developmental Expression of the Chorion Multigene Families," <u>Cell</u> , 18:1303-1316 (1979) | | |
| WK | Smith et al., "A Novel Method for Delineating Antigenic Determinants: Peptide Synthesis and Radioimmunoassay Using the Same Solid Support," <u>Immunochemistry</u> , 14:565-568 (1977) | | |
| WL | Sofia, M.J., "Carbohydrate-based combinatorial libraries," <u>Molecular Diversity</u> , 3:75-94 (1998). | | |
| WM | Southern et al., "Report on the Sequencing by Hybridization Workshop," <u>Genomics</u> , 13:1378-1383 (1992) | | |
| WN | Southern et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridization properties of oligonucleotides synthesized <i>in situ</i> ," <u>Nuc. Acids Res.</u> , 20(7):1679-1684 (1992) | | |
| WO | Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," <u>Genomics</u> , 13:1008-10017 (1992). | | |
| WP | Southern, E.M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis," <u>J. Mol. Biol.</u> , 98:503-517 (1975). | | |
| WQ | Stemme et al., "A valveless diffuser/nozzle-based fluid pump," <u>Sensors and Actuators</u> , A39:159-167 (1993) | | |
| WR | Stryer, L., "DNA Probes and Genes Can be Synthesized by Automated Solid-Phase Methods," from <i>Biochemistry</i> , Third Edition, published by W.H. Freeman & Co., (1988) | | |
| WS | Stuber et al., "Synthesis and photolytic cleavage of bovine insulin B22-30 on a nitrobenzoylglycyl-poly (ethylene glycol) support," <u>Int. J. Peptide Protein Res.</u> , 22(3):277-283 (1984) | | |
| <input checked="" type="checkbox"/> WT | Sundberg et al., "Spatially-Addressable Immobilization of Macromolecules on Solid Supports," <u>J. Am. Chem. Soc.</u> , 117(49):12050-12057 (1995) | | |



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|---|---|-------------------------------------|-----------------------------|
| FORM PTO-449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <input checked="" type="checkbox"/> PP WU | Swedberg, S.A., "Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis, An apparent micellar electrokinetic capillary chromatography mechanism," <u>J. Chromatography</u> , 503:449-452 (1990) | | |
| <input type="checkbox"/> WV | Thomas, P.S., "Hybridization of denatured RNA and small DNA fragments transferred to nitrocellulose," <u>PNAS</u> , 77(9):5201-5205 (1980). | | |
| <input type="checkbox"/> WW | Titus et al., "Texas Red, a Hydrophilic, red-emitting fluorophore for use with fluorescein in dual parameter plow microfluorometric and fluorescence microscopic studies," <u>J. Immunol. Meth.</u> , 50:193-204 (1982) | | |
| <input type="checkbox"/> WX | Tkachuk et al., "Detection of <i>bcr-abl</i> Fusion in chronic Myelogeneous Leukemia by in situ Hybridization," <u>Science</u> , 250:559-562 (90) | | |
| <input type="checkbox"/> WY | Trzeciak et al., "Synthesis of 'Head-to-Tail' Cyclized Peptides on Solid Support by Fmoc Chemistry," <u>Tetrahed. Letters</u> , 33(32):4557-4560 (1992) | | |
| <input type="checkbox"/> WZ | Tsien et al., "Control of Cytoplasmic Calcium with Photolabile Tetracarboxylate 2-Nitrobenzhydryl Chelators," <u>Biophys. J.</u> , 50:843-853 (1986) | | |
| <input type="checkbox"/> XA | Tsutsumi et al., "Expression of L- and M- Type Pyruvate Kinase in Human Tissues," <u>Genomics</u> , 2:86-89 (1988) | | |
| <input type="checkbox"/> XB | Turchinskii et al., "Multiple Hybridization in Genome Analysis, Reaction of Diamines and Bisulfate with Cytosine for Introduction of Nonradioactive labels Into DNA," <u>Molecular Biology</u> , 22:1229-1235 (1988) | | |
| <input type="checkbox"/> XC | Turner et al., "Photochemical Activation of Acylated α -Thrombin," <u>J. Am. Chem. Soc.</u> , 109:1274-1275 (1987) | | |
| <input type="checkbox"/> XD | Urdea et al., "A novel method for the rapid detection of specific nucleotide sequences in crude biological samples without blotting or radioactivity; application to the analysis of hepatitis B virus in human serum," <u>Gene</u> , 61:253-264 (1987) | | |
| <input type="checkbox"/> XE | Urdea et al., "A comparison of non-radioisotopic hybridization assay methods using fluorescent, chemiluminescent and enzyme labeled synthetic oligodeoxyribonucleotide probes," <u>Nuc. Acids Res.</u> , 16(11):4937-4956 (1988) | | |
| <input type="checkbox"/> XF | Van der Voort et al., "Design and Use of a Computer Controlled Confocal Microscope for Biological Applications," <u>Scanning</u> , 7(2):66-78 (1985) | | |
| <input type="checkbox"/> XG | Van Hijfte et al., "Intramolecular 1,3-Diyl Trapping Reactions. A Formal Total Synthesis of -Coriolin," <u>J. Organic Chemistry</u> , 50:3942-3944 (1985) | | |
| <input type="checkbox"/> XH | Veldkamp, W.B., "Binary optics: the optics technology of the 1990s," <u>CLEO 90</u> , Vol. 7, paper # CMG6 (1990) | | |
| <input type="checkbox"/> XI | Verlaan-de Vries et al., "A dot-blot screening procedure for mutated <i>ras</i> oncogenes using synthetic oligodeoxynucleotides," <u>Gene</u> , 50:313-320 (1986) | | |
| <input type="checkbox"/> XJ | Verpoorte et al., "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:246-256 (1994) | | |
| <input type="checkbox"/> XK | Volkmut et al., "DNA electrophoresis in microlithographic arrays," <u>Nature</u> , 358:600-602 (1992) | | |
| <input type="checkbox"/> XL | Voss et al., "The immobilization of oligonucleotides and their hybridization properties," <u>Biochem. Soc. Transact.</u> , 16:216-217 (1988) | | |
| <input type="checkbox"/> XM | Wada, A., <i>International Workshop on Automatic and High Speed DNA Base Sequencing</i> , Hayashibara Forum 1987 at Hayashibara Biochemical Laboratories, Okayama, Japan, July 7-9, 1987. | | |
| <input type="checkbox"/> XN | Walker et al., "Photolabile Protecting Groups for an Acetylcholine Receptor Ligand. Synthesis and Photochemistry of a New Class of o-Nitrobenzyl Derivatives and their Effects on Receptor Function," <u>Biochemistry</u> , 25:1799-1805 (1986) | | |
| <input type="checkbox"/> XO | Wallace et al., "The use of synthetic oligonucleotides as hybridization probes. II. Hybridization of oligonucleotides of mixed sequence to rabbit β -globin DNA," <u>Nuc. Acids Res.</u> , 9(4):879 (1981). | | |
| <input type="checkbox"/> XP | Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to $\Phi\chi$ 174 DNA: the effect of single base pair mismatch," <u>Nuc. Acids Res.</u> , 11(6):3543-3557 (1979) | | |
| <input type="checkbox"/> XQ | Washizu et al., "Handling Biological Cells Using a Fluid Integrated Circuit," <u>IEEE Transactions Industry Applications</u> , 26(2):352-358 (1990) | | |
| <input checked="" type="checkbox"/> XR | Wiedmann, M. et al., "Ligase Chain Reaction (LCR) - Overview and Applications," <u>PCR Meth. Appl.</u> , 3(4):S51-S64 (1994). | | |

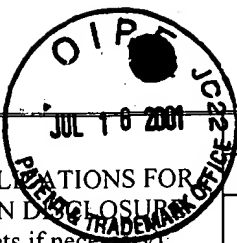


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| FORM PTO-1449 (Modified) | | Attorney Docket No.: 18547-043210US | Application No.: 09/654,948 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Applicant: Pirrung et al. | |
| | | Filing Date: September 1, 2000 | Group: 1643 1627 |
| <input checked="" type="checkbox"/> XS | Werner et al., "Size-Dependent Separation of Proteins Denatured in SDS by Capillary Electrophoresis Using a Replaceable Sieving Matrix," <u>Anal. Biochem.</u> , 212:253-258 (1993) | | |
| <input type="checkbox"/> XT | White et al., "An Evaluation of Confocal Versus Conventional Imaging of Biological Structures by Fluorescence Light Microscopy," <u>J. Cell Biol.</u> , 105(1):41-48 (1987) | | |
| <input type="checkbox"/> XU | Widacki et al., "Biochemical Differences in Qa-2 Antigens Expressed by Qa-2+,6+ and Qa-2a+,6- Strains. Evidence for Differential Expression of the Q7 and Q9 Genes," <u>Mol. Immunology</u> , 27(6):559-570 (1990) | | |
| <input type="checkbox"/> XV | Wilcox et al., "Synthesis of Photolabile 'Precursors' of Amino Acid Neurotransmitters," <u>J. Org. Chem.</u> , 55:1585-1589 (1990) | | |
| <input type="checkbox"/> XW | Wilding et al., "PCR in a Silicon Microstructure," <u>Clin. Chem.</u> , 40(9):1815-1818 (1994) | | |
| <input type="checkbox"/> XX | Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon," <u>Clin. Chem.</u> , 40(1):43-47 (1994) | | |
| <input type="checkbox"/> XY | Wittman-Liebold, eds., Methods in Protein Sequence Analysis, from Proceedings of 7th Int'l Conf., Berlin, Germany, 7/3-8/88, table of contents, pp. xi-xx* (1989) | | |
| <input type="checkbox"/> XZ | Wood et al., "Base composition-independent hybridization in tetramethylammonium chloride: A method for oligonucleotide screening of highly complex gene libraries," <u>PNAS</u> , 82:1585-1588 (1985). | | |
| <input type="checkbox"/> YA | Woolley et al., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <u>PNAS</u> , 91:11348-11352 (1994) | | |
| <input type="checkbox"/> YB | Wu et al., "Synthesis and Properties of Adenosine-5'-triphospho- γ -5-(5-sulfonic acid)naphthyl Ethylamidate: A Fluorescent Nucleotide Substrate for DNA-Dependent RNA Polymerase from <i>Escherichia coli</i> ," <u>Arch. Biochem. Biophys.</u> , 246(2):564-571 (1986) | | |
| <input type="checkbox"/> YC | Wu et al., "Laboratory Methods, Direct Analysis of Single Nucleotide Variation in Human DNA and RNA Using <i>In Situ</i> Dot Hybridization," <u>DNA</u> , 8(2):135-142 (1989) | | |
| <input type="checkbox"/> YD | Yamamoto et al., "Features and applications of the laser scanning microscope," <u>J. Mod. Optics</u> , 37(11):1691-1701 (1990) | | |
| <input type="checkbox"/> YE | Yarbrough et al., "Synthesis and Properties of Fluorescent Nucleotide Substrates for DNA-dependent RNA Polymerases," <u>J. Biol. Chem.</u> , 254(23):12069-12073 (1979) | | |
| <input type="checkbox"/> YF | Yosomiya et al., "Performance, Glass fiber Having Isocyanate Group on the Surface. Preparation and Reaction with Amino Acid," <u>Polymer Bulletin</u> , 12:41-48 (1984) | | |
| <input type="checkbox"/> YG | Young, W.S., "Simultaneous Use of Digoxigenin- and Radiolabeled Oligodeoxyribonucleotide Probes for Hybridization Histochemistry," <u>Neuropeptides</u> , 13:271-275 (1989) | | |
| <input type="checkbox"/> YH | Yue et al., "Miniature Field-Flow Fractionation System for Analysis of Blood Cells," <u>Clin. Chem.</u> , 40(9):1810-1814 (1994) | | |
| <input type="checkbox"/> YI | Zehavi et al., "Light-Sensitive Glycosides. I. 6-Nitroveratryl β -D-Glucopyranoside and 2-Nitrobenzyl β -D-Glucopyranoside," <u>J. Org. Chem.</u> , 37(14):2281-2285 (1972) | | |
| <input type="checkbox"/> YJ | Zengerle et al., "Transient measurements on miniaturized diaphragm pumps in microfluid systems," <u>Sensors and Actuators</u> , A46-47:557-561 (1995) | | |
| <input type="checkbox"/> YK | Zischler et al., "Non-radioactive oligonucleotide fingerprinting in the gel," <u>Nuc. Acids Res.</u> , 17(11):4411 (1989). | | |
| <input checked="" type="checkbox"/> YL | Zischler et al., "Digoxigenated oligonucleotide probes specific for simple repeats in DAN fingerprinting and hybridization in situ," <u>Hum. Genet.</u> , 82:227-233 (1989). | | |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|---|---|----------|---|-------|---|---------------------------------|
| FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | | Attorney Docket No.: 18547-043210US Applicant: Michael C. Pirrung et al. Filing Date: September 1, 2000 | | RECEIVED Application No.: 09/054,948 MAY 10 2001 Group: 1627 TECH CENTER 1600/2900 Page 1 | |
| Reference Designation | | | U.S. PATENT DOCUMENTS | | | |
| Examiner Initial | Document No. | Date | Name | Class | Sub-class | Filing Date (If Appropriate) |
| <u>PP</u> AA | 4,715,929 | 12/29/87 | Ogawa | | | |
| <u>PP</u> AB | 4,478,967 | 10/23/84 | Eian et al. | | | |
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| AE | | | | | | |
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| <u>PP</u> AM | 0 400 920 A1 | 12/05/90 | Europe <u>EPO</u> | | | |
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| <u>PP</u> AO | 0 233 403 A1 | 08/26/87 | Europe <u>EPO</u> | | | |
| AP | | | | | | |
| AQ | | | | | | |
| AR | | | | | | |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | |
| <u>PP</u> AS | Ronald Frank et al., "Facile and rapid 'spot-synthesis' of large numbers of peptides on membrane sheets", 1991 Proceedings of the 21st European Peptide Symposium, Platja D'Oro, Spain, 2-8 September 1990, Leiden, NL XP002154029 190790 | | | | | |
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| FORM PTO-1449 (Modified) | | Attorney Docket No.: 18547-043210US | | Application No.: 09/654,948 | | |
| LIST OF PATENTS AND PUBLICATIONS FOR | | Applicant: J. Leighton Read et al. | | | | |
| APPLICANT'S INFORMATION DISCLOSURE | | Filing Date: September 1, 2000 | | Group: 1643 1627 | | |
| STATEMENT (Use several sheets if necessary) | | | | | | |
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| PP AA | 4,758,727 | 7/19/88 | Tomei et al. | 250 | 458.1 | 2/12/86 |
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| PP AB | Ballard et al., "Imaging Genes, Chromosomes and Nuclear Structures Using Laser-Scanning Confocal Microscopy," <u>SPIE, Bioimaging and Two-Dimensional Spectroscopy</u> , 1205:1-10, conference held 1/18-19/90, Los Angeles, CA., abstract also included (1990). | | | | | |
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